Salesforce Certified Platform Developer 1 Exam Question and Answers From exam taken on 2/21/2020

1. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?
   - **Flow Builder**
2. What does the Lightning Component framework provide to developers?
   - **Prebuilt components that can be reused**
3. Which three operations affect the number of times a trigger can fire? Choose 3 answers
   - **Workflow Rules**
   - **Process Flows**
   - Roll-up Summary fields
4. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers
   - **Bubble**
   - **Default**

5. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?

   - **FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)**
6. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:
   Name
   Amount
   Account
   Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers
   - Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page.
   - Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

7. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.
   How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?
   - **2**
8. A developer has the following requirements:

- Calculate the total amount on an order.
- Calculate the line amount for each line item based on quantity selected and price.
- Move line items to a different order if a line item is not in stock.

Which relationship implementation supports these requirements?

- **Line Item has a Master-Detail field to Order and the Master can be re-parented.**

9. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book?
   - **Use Test. getStandardPricebookId() to get the standard price book ID.**
10. Universal Containers (UC) decided it will not send emails to support personnel directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system to be notified of the error.

    What is the appropriate publish/subscribe logic to meet these requirements?

    - **Have the external system subscribe to the BatchApexError event, no publishing is not necessary.**
11. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

    How should the developer implement this request?

    - **Use the <apex:relatedList> tag**
12. The Job_Application__c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job_Application__c records.

    Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

    - **(SELECT Id, (SELECT Id FROM Job_Application__r) FROM Contact WHERE Account.Industry = 'Technology');**
13. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers
    - **Relationships**
    - **Custom Objects and Fields**
    - **Roll-Up Summaries**
14. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change set deployment to production fails with the test coverage warning:

    "Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required."

What should the developer do to successfully deploy the new Apex trigger and helper class?

- **Create a test class and methods to cover the Apex trigger.**

15. A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debtAmount' should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers
    - **Use the final keyword and assign its value when declaring the variable.**
    - **Use the final keyword and assign its value in the class constructor**.

16. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers
    - **A method using the @InvocableMethod annotation can be declared as Public or Global.**
    - **Only one method using the @InvocableMethod annotation can be defined per Apex class.**
    - **A method using the @InvocableMethod annotation must be declared as static.**
17. Which two events need to happen when deploying to a production org? Choose 2 answers
    - **All triggers must have at least 1% test coverage.**
    - **All Apex code must have at least 75% test coverage.**
18. Application Events follow the traditional publish-subscribe model.
    Which method is used to fire an event?
    - **Fire()**
19. Given the following trigger implementation:

```
trigger leadTrigger on Lead (before update){
final ID BUSINESS_RECORDTYPEID = '01250000009Qad';

for(Lead thisLead : Trigger.new){
        if(thisLead.Company  !=null && thisLead.RecordTypeId !=
BUSINESS_RECORDTYPEID){
thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;
        }
    }
}
```

    The developer receives deployment errors every time a deployment is attempted from sandbox to production.
    What should a developer do to ensure a successful deployment?
    - Ensure BUSINESS_RECORDTYPEID is published as part of the deployment components.
20. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.
    Which update should the developer make in the Visual Flow?
    - **Add a new Create Records element.**
21. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a PostalCodeToTimezone__c custom object. How should a developer implement this feature?

- Build an Account custom trigger.

22. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

- **@TestSetup**

62. An apex method, getaccounts, that returns a list of accounts given a searchTerm, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method?

- **@wire(getAccounts, { searchTerm: '$searchTerm'})**
  AccountList;

63. What will be the output in the debug log in the event of a QueryExeption during a call to the @query
method in the following Example?

```
Class myClass {
class customeexception extends queryException {}
public static accounts @query() {
account theaccount;
try (
-
- - - -
- - -
- - -
finally {
system.debug('Done.');
}
return theAccount;
}
}
```

- Querying Accounts. Query Exception. Done

64. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

- Event monitoring log

66. A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

- Declare maxAttempts as a constant using the static and final keywords.

67. Which salesforce org has a complete duplicate copy of the production org including data and configuration?

- Full Sandbox

68. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

- Refactor the code above to perform only one SOQL query, filtering by the set of opportunityIds.

69. Universal Containers stores orders and line Items in SF. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used?

- Lookup

70. Which three statements are true regarding custom exceptions in Apex?

- Custom Exception class name must end with 'Exception'
- Custom Exception class must extend the system Exception class
- Custom Exception class can implement one or many Interfaces

71. Given the following Apext statement:
Account myAccount = [select ID, name from account] ;
What occurs when more than one account is returned by the SOQL query?

- An unhandled exception is thrown and the code terminates

72. A developer has a VF page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

- Include <apex:messages> on the visualforce page.

73. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. the code then executes with no exception or errors.
Why did the test method fail in the sandbox and pass in the dev console?

- The test method relies on existing data in the sandbox

74. A developer identifies the following triggers on the Expense_c object:

DeleteExpense,
applyDefaultstoexpense
validateexpenseupdate;
The triggers process before delete, before insert, and before update events respectively.
Which two techniques should the developer implement to ensure trigger best practice are followed?

- Create helper classes to execute the appropriate logic when a record is saved

● unify all three triggers in a single trigger on the expense__c object that includes all events

75. A developer wants to import 500 opportunity records into a sandbox
Why should the developer choose to use Data loader instead of data import wizard?

● Data import wizard does not support 'opportunities'

76. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which VF feature supports this requirements?

- recordSetVar page attribute

77. A developer is debugging the following code to determine why accounts are not being created.
Account a =new account(name= 'a');
database.insert(a,false);
How should the code be altered to help debug the issue?

● Add a try/catch around the insert method

78. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?

● Self-contained and reusable units of an application
● rich component ecosystem

79. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?

● use the 'with sharing' keyword on the class declaration

84.If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regardng governor limits?

- The Apex governor limits might be higher due to the asynchronous nature of the transaction
- The Apex governor limits are reset for each iteration of the execute() method.

85. What should be enabled for working of Scratch org?

- Developer hub (Dev Hub)

86. How many accounts will be inserted by the following block ofcode? for(Integer i = 0 ; i < 500; i++) { Account a = new Account(Name='New Account ' + i); insert a; }

- 0

87. Boolean odk;
Integer x;
if(abok=false;integer=x;){
X=1;

```
}elseif(abok=true;integer=x;){
X=2;
}elseif(abok!=null;integer=x;){
X=3;
)elseif{
X=4;}
```

- X=4

88. what are the three languages used in the visualforce page?

- Javascript, CSS, HTML

89. what are the methods used to show input in classic and lightning ?

- Use visualforce page in classic and lightning component in lightning

90. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

- <apex:includeLightning/>
- $Lightning.createComponent
- $Lightning.use

91. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

- Developer Console

92. order of execution in salesforce

- Validation rule,trigger,workflow,process builder,commit

93. The following Apex method is part of the contactservice class that is called from a trigger.

```
Public Static Void setBusinessUnitToEMEA(Contact thisContact) {
thisContact.Business_Unit__c = 'EMEA';
update thisContact;
}
```

How should the developer modify the code to ensure best practices are met?

```
Public Static void setBusinessUnitToEMA(List<contact> contacts) {
for (contact thisContact : contacts) {
```

thisContact ,Business)_Unit__c = ‘EMEA’ ;

}

update contacts;

}

96. A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?

● Public inherited sharing class ContactController.

● Public with sharing class ContactController.

97. What is the maximum number of SOQL queries used by the following code?

List<Account> aList = [SELECT Id From Account LIMIT 5] ;

for (Account a : aList) {

List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];

}

● 6

100. How does the Lightning Component framework help developers implement solutions faster?

● By providing device-awareness for mobile and desktops

102. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

● A Master-Detail relationship detail record inherits the sharing and security of its master record.

104. A licensed_professional__c custom object exists in the system with two mater-detail fields for the following objects: Certification__c and Contact. Users with the ‘certification representative’ role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view

any licensed professional records even though they own the associated contact record. What are two likely causes of users in the ‘sales reps’ role not being able to access the licesnsed professional records?

- The Organization recently modified the sales reps role to restrict read/write access to licensed_professional__c
- The org has a private sharing model for Certification__c and certification__c is the primary relationship in the licensed-professional__c object.

Platform Developer 1 Exam Question and Answers SP20
Exam Taken 22nd April, 2020

1. Which three steps allow a custom SVG to be included in a Lightning web component? Choose 3 answers

   - **Upload the SVG as a static resource**
   - **Import the static resource and provide a getter for it in JavaScript**
   - **Reference the getter in the HTML template**

2. Which process automation should be used to send an outbound message without using Apex code?

   - **Workflow Rule**

3. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.

   ```
   List<Contact> performSearch(String lastname){
       Return Database.query(SELECT Id, FirstName, LastName FROM Contact WHERE
       LastName like % ' + LastName + ' % ' ) ;
   }
   ```

   What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

   - **Use variable binding and replace the dynamic query with a static SOQL.**
   - **Use the escapeSingleQuotes method to sanitize the parameter before its use.**

4. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop.

   Which Apex solution will let the developer implement this requirement?

   - **break;**

5. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects.

   What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

   - **Create the picklist on each object and use a Global Picklist Value Set containing the values.**

6. Which aspect of Apex programming is limited due to multitenancy?

   - **The number of records returned from database queries**

7. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce?
   - **Number with External ID**
8. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, ContactInfo.
   Which is the correct definition of the Apex method that gets the additional information?

   - **@InvocableMethod(label='Additional Info')**
     Public static List<ContactInfo> getInfo(List<Id> contactIds}
     { /*implementation*/ }
9. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement?

   Define a Data Export scheduled job.
10. Assuming that 'name; is a String obtained by an <apex:inputText> tag on a Visualforce page. Which two SOQL queries performed are safe from SOQL injections? Choose 2 answers
    - **String query = 'SELECT Id FROM Account WHERE Name LIKE \ '%' + String.escapeSingleQuotes(name) + '%''**
      List<Account> results = Database.query(query);

    - **String query = '%' + name + '%' ;**
      List<Account> results = [SELECT Id FROM Account WHERE Name LIKE 'query';
11. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.
    Which type of Salesforce orgs should they use for their deployment?

    - **Scratch Orgs**
12. Which code displays the content of Visualforce page as PDF?
    - **<apex:page renderAs="pdf">**
13. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?
    - **Flow Builder**
14. What does the Lightning Component framework provide to developers?
    - **Prebuilt components that can be reused**
15. Which three operations affect the number of times a trigger can fire? Choose 3 answers
    - **Workflow Rules**
    - **Process Flows**
    - Roll-up Summary fields
16. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers

- **Bubble**
- **Default**

17. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

```
Public interface Sortable (
        Void sort();
)
Public interface Drawable (
        Void draw();
)
```

Which is the correct implementation?

- **Public class DrawList implements Sortable, Drawable {**
  Public void sort() { /*implementation*/}
  Public void draw() { /*implementation*/}
  }

18. Given the following anonymous Block:

```
List<Case> casesToUpdate = new List<Case>();
For(Case thisCase : [SELECT Id, Status FROM Case LIMIT 50000)){
        thisCase.Status = 'Working' ;
        casesToUpdate.add(thisCase);
}
Try{
        Database.update(casesToUpdate.false);
}catch(Exception e){
System.debug{e.getmessage());
}
```

What should a developer consider for an environment that has over 10,000 case records?

- **The transaction will succeed and changes will be committed.**

19. A developer needs to prevent the creation of Request records when certain conditions exist in the system. A Requestlogic class exists that checks the conditions. What is the correct implementation?

- **Trigger RequestTrigger on Request (before insert) {**
  RequestLogic.validateRecords(trigger.new);
  }

20. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order?

- **Use a Max Roll-Up Summary field on the latest availability date fields.**

21. Which exception type cannot be caught?

- **LimitException**

22. A developer needs to confirm that a Contact trigger works correctly without changing the organizations data. What should the developer do to test the Contact trigger?

    - **Use the Test menu on the Developer Console to run all test classes for the Contact trigger.**

23. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?

    - **FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)**

24. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?

    - **String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url_param'))**

25. Where are two locations a developer can look to find information about the status of asynchronous or future calls? Choose 2 answers
    - **Apex Jobs**
    - **Apex Flex Queue**

26. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:
    Name
    Amount
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    Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers
    - Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page.
    - Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

27. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test?

    - **Use Test.loadData() and reference a static resource.**

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.
    What is a possible reason that this change was not permitted?

- **The Account records contain Vendor Roll-Up Summary fields.**

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than $10,000? Choose 3 answers
    - **Process Builder**
    - **Workflow Rule**
    - Escalation Rule
30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox?

    - **Ant Migration Tool**
31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database.

    Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers

    - **Use the System.Limit class to monitor the current CPU governor limit consumption.**
    - **Use the Database.Savepoint method to enforce database integrity.**
32. Which three data types can a SOQL query return? Choose 3 answers
    - **Integer**
    - **sObject**
    - **List of sObjects**
33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience?
    - **<apex:page lightningStyleSheets=”true”>**
34. Which statement generates a list of Leads and Contacts that have a field with the phrase ‘ACME’?

    - **List<List <sObject>> searchList = [FIND ‘*ACME*’ IN ALL FIELDS RETURNING Contact, Lead];**
35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.

    How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?

    - **2**
36. A developer has the following requirements:
    - Calculate the total amount on an order.

- Calculate the line amount for each line item based on quantity selected and price.
- Move line items to a different order if a line item is not in stock.

Which relationship implementation supports these requirements?

- **Line Item has a Master-Detail field to Order and the Master can be re-parented.**

37. Which code in a Visualforce page and /or controller might present a security vulnerability?

- **<apex:outputText escape="false" value="{!$CurrentPage.parameters.UserInput}" />**

38. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book?
- **Use Test. getStandardPricebookId() to get the standard price book ID.**

39. Universal Containers (UC) decided it will not send emails to support personnel directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system to be notified of the error.

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- **Have the external system subscribe to the BatchApexError event, no publishing is not necessary.**

40. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts.

How should the developer implement this request?

- **Use the <apex:relatedList> tag**

41. The Job_Application__c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job_Application__c records.

Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

- **(SELECT Id, (SELECT Id FROM Job_Application__r) FROM Contact WHERE Account.Industry = 'Technology');**

42. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers
- **Relationships**
- **Custom Objects and Fields** process builder
- **Roll-Up Summaries**

43. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change set deployment to production fails with the test coverage warning:

"Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required."
What should the developer do to successfully deploy the new Apex trigger and helper class?

- **Create a test class and methods to cover the Apex trigger.**

44. What are three ways for a developer to execute tests in an org? Choose 3 answers

- **Tooling API**
- **Setup Menu** Bulk api
- **SalesforceDX**

45. A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debtAmount' should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers
    - **Use the final keyword and assign its value when declaring the variable.**
    - **Use the final keyword and assign its value in the class constructor**.
46. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. The Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address".
    Which field should the developer add to create the most efficient model that supports the business need?
    - **Add a Master-Detail field on the Global Address object to the Account object.**
47. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

- **Override the Account's Edit button with a Lightning Component**.

48. Given the following block of code:

```
Try{
        List<Accounts> retrieveRecords = [SELECT Id FROM Account WHERE
Website = null];
} catch(Exception e){
//manage exception logic
}
```

What should a developer do to ensure the code execution is disrupted if the retrieveRecords list remains empty after the SOQL query?

- **Check the state of the retrievedRecords variable and throw a custom exception if the variable is empty.**

49. A recursive transaction is initiated by a DML statement creating records for these two objects:
    1. Accounts

2. Contacts

The Account trigger hits a stack depth of 16.

Which statement is true regarding the outcome of the transaction?

- **The transaction succeeds and all changes are committed to the database.**

50. A developer created a Visualforce page and custom controller to display the Account type field as shown below.

Custom controller code:

```
public class customCtrlr{
private Account theAccount;
public String actType;

public customCtrlr(){
theAccount = (SELECT Id, Type FROM Account
        WHERE Id = :ApexPages.currentPage().getParameters().get('id')};
        actType = theAccount.Type;
        }
}
```

Visualforce page snippet:

The Account Type is {!actType}

The value of the account type field is not being displayed correctly on the page.

Assuming the custom controller is properly referenced on the Visualforce page, what should the developer do to correct the problem?

- **Add a getter method for the actType attribute**.

51. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface.

```
public interface PaymentProcessor {
        void pay(Decimal amount);
}
```

Which is the correct implementation to use the PaymentProcessor interface class?

- **Public class CheckPaymentProcessor implements PaymentProcessor {**
  Public void pay(Decimal amount) {};
  }

52. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers

- **A method using the @InvocableMethod annotation can be declared as Public or Global.**

- **Only one method using the @InvocableMethod annotation can be defined per Apex class.**
- **A method using the @InvocableMethod annotation must be declared as static.**

53. Which two events need to happen when deploying to a production org? Choose 2 answers
    - **All triggers must have at least 1% test coverage.**
    - **All Apex code must have at least 75% test coverage.**
54. Application Events follow the traditional publish-subscribe model.
    Which method is used to fire an event?
    - **Fire()**
55. Given the following trigger implementation:

```
trigger leadTrigger on Lead (before update){
final ID BUSINESS_RECORDTYPEID = '01250000009Qad';

for(Lead thisLead : Trigger.new){
        if(thisLead.Company  !=null && thisLead.RecordTypeId !=
BUSINESS_RECORDTYPEID){
thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;
        }
    }
}
```

    The developer receives deployment errors every time a deployment is attempted from sandbox to production.
    What should a developer do to ensure a successful deployment?
    - Ensure BUSINESS_RECORDTYPEID is published as part of the deployment components.
56. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.
    Which update should the developer make in the Visual Flow?
    - **Add a new Create Records element.**
57. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a PostalCodeToTimezone__c custom object. How should a developer implement this feature?
    - Build an Account custom trigger.
58. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.
    What is the correct definition of the Apex method?

    - **@InvocableMethod**

```
global static List<List<Recommendation>>
getLevel(List<ContactWrapper> input)
{ /* implementation*/}
```

Notes: The Enhance element can pass any number of inputs to the Apex action. The input parameter must be a list or a list of lists of a user-defined Apex object (for example, a custom class called DataContainer).

59. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

● **@TestSetup**

62. An apex method, getaccounts, that returns a list of accounts given a searchTerm, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method?

● **@wire(getAccounts, { searchTerm: '$searchTerm'})**
AccountList;

63. What will be the output in the debug log in the event of a QueryExeption during a call to the @query
method in the following Example?

```
Class myClass {
class customeexception extends queryException {}
public static accounts @query() {
account theaccount;
try (
-
- - - -
- - -
- - -
finally {
system.debug('Done.');
}
return theAccount;
}
}
```

● Querying Accounts. Query Exception. Done

64. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

● Event monitoring log

65. A developer must create a shippingCalcultaor class that cannot be instantiated and must include a working default implmenation of a calculate method, that sub-classes can override.

● Public abstract class shippingCalculator {
public virtual void calculator() {/*implmenation*/ }

66. A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements?

- Declare maxAttempts as a constant using the static and final keywords.

67. Which salesforce org has a complete duplicate copy of the production org including data and configuration?

- Full Sandbox

68. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit.

- Refactor the code above to perform only one SOQL query, filtering by the set of opportunityIds.

69. Universal Containers stores orders and line Items in SF. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used?

- Lookup

70. Which three statements are true regarding custom exceptions in Apex?

- Custom Exception class name must end with 'Exception'
- Custom Exception class must extend the system Exception class
- Custom Exception class can implement one or many Interfaces

71. Given the following Apext statement:
Account myAccount = [select ID, name from account] ;
What occurs when more than one account is returned by the SOQL query?

- An unhandled exception is thrown and the code terminates

72. A developer has a VF page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

- Include <apex:messages> on the visualforce page.

73. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. the code then executes with no exception or errors.
Why did the test method fail in the sandbox and pass in the dev console?

- The test method relies on existing data in the sandbox

74. A developer identifies the following triggers on the Expense_c object:

DeleteExpense,
applyDefaultstoexpense
validateexpenseupdate;
The triggers process before delete, before insert, and before update events respectively.
Which two techniques should the developer implement to ensure trigger best practice are followed?

- Create helper classes to execute the appropriate logic when a record is saved
- unify all three triggers in a single trigger on the expense__c object that includes all events

75. A developer wants to import 500 opportunity records into a sandbox
Why should the developer choose to use Data loader instead of data import wizard?

- Data import wizard does not support 'opportunities'

76. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which VF feature supports this requirements?

- recordSetVar page attribute

77. A developer is debugging the following code to determine why accounts are not being created.
Account a =new account(name= 'a');
database.insert(a,false);
How should the code be altered to help debug the issue?

- Add a try/catch around the insert method

78. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?

- Self-contained and reusable units of an application
- rich component ecosystem

79. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?

- use the 'with sharing' keyword on the class declaration

81. A developer must create a creditcardpayment class that provides an implementation of an existing payment class. Which is the correct implementation.

- PUblic class creditcardpayment extends payment {
  public overrride void makepayment(decimal amount) {/*implemenation*/}

82. A developer must create a lightning component that allows users to input contact record information to create a contact record, including a salary__c custom field. what should the developer use, along with a lightning-record-edit form, so that salary__c field functions as a currency input and is only viewable and editable by users that have the correct field level

permissions on salary__C?

- <lightning-input type=”number” value= “salary__c” formatter=”currency”> </lightning-input>

83. A lightning component has a wired property, searchresults, that stores a list of opportunities. which definition of the apex method, to which the searchresults property is wired, should be used?

- @auraenabled(cacheable=true)
  public static list<Opportunity> search (string term) {/*implementation*/}

84.If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regardng governor limits?

- The Apex governor limits might be higher due to the asynchronous nature of the transaction
- The Apex governor limits are reset for each iteration of the execute() method.

85. What should be enabled for working of Scratch org?

- Developer hub (Dev Hub)

86. How many accounts will be inserted by the following block ofcode? for(Integer i = 0 ; i < 500; i++) { Account a = new Account(Name='New Account ' + i); insert a; }

- 0

87. Boolean odk;
Integer x;
if(abok=false;integer=x;){
X=1;
}elseif(abok=true;integer=x;){
X=2;
}elseif(abok!=null;integer=x;){
X=3;
)elseif{
X=4;}

- X=4

88. what are the three languages used in the visualforce page?

- Javascript, CSS, HTML

89. what are the methods used to show input in classic and lightning ?

- Use visualforce page in classic and lightning component in lightning

90. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

- <apex:includeLightning/>
- $Lightning.createComponent

- $Lightning.use

91. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

- Developer Console

92. order of execution in salesforce

- Validation rule,trigger,workflow,process builder,commit

93. The following Apex method is part of the contactservice class that is called from a trigger.

```
Public Static Void setBusinessUnitToEMEA(Contact thisContact) {
thisContact.Business_Unit__c = 'EMEA';
update thisContact;
}
```

How should the developer modify the code to ensure best practices are met?

```
Public Static void setBusinessUnitToEMA(List<contact> contacts) {
for (contact thisContact : contacts) {
thisContact ,Business)_Unit__c = 'EMEA' ;
}
update contacts;
}
```

94. Universal Containers has as large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner?

- Incorporate the salesforce Lightning Design System CSS stylesheet into the Javascript applications.

95. An approval Process is defined in the Expense_Item___c object. A business rule idictates that whenever a user changes the status to 'submitted' on an Expense_Report__c record, all

the Expense_item__c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

● Create a process Builder on Expense_Report__c with a 'submit for approval' action type to submit all related Expense_Item__c records when the criteria is met.

96. A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?

● Public inherited sharing class ContactController.

● Public with sharing class ContactController.

97. What is the maximum number of SOQL queries used by the following code?

List<Account> aList = [SELECT Id From Account LIMIT 5] ;

for (Account a : aList) {

List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];

}

● 6

98. A developer created this Apex trigger that calls MyClass.myStaticMethod:

trigger myTrigger on Contact (before insert){

MyClass.myStaticMethod(trigger.new, trigger.oldMap) ;

}

The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

● The deployment fails because the Apex trigger has no code coverage

99. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?

● View the Apex Jobs page

● View the Apex Flex Queue.

100. How does the Lightning Component framework help developers implement solutions faster?

● By providing device-awareness for mobile and desktops

101. What are two ways for a developer to execute tests in an org?

● Tooling API

● Developer console

102. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

● A Master-Detail relationship detail record inherits the sharing and security of its master record.

103. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

● 4, check in dev console: 2

104. A licensed_professional__c custom object exists in the system with two mater-detail fields for the following objects: Certification__c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'sales reps' role not being able to access the licesnsed professional records?

● The Organization recently modified the sales reps role to restrict read/write access to licensed_professional__c

● The org has a private sharing model for Certification__c and certification__c is the primary relationship in the licensed-professional__c object.

105. A custom picklist field, food_preference__c, exists on a custom object. The picklist contains the following options; ‘vegan’,’kosher’,’no prefernce’. The developer must ensure a vlude is populated every time a record is created or updated. what is the most efficient way to ensure a value is selected every time a record is saved?

- Mark the field as required on the field definition.

SALESFORCE PLATFORM DEVELOPER I

1. Universal Containers stores Orders and Line Items in Salesforce. For security reason, financial representatives are allowed to see information on the Order such as order amount, but they are not allowed to see the Line items on the Order. Which type of relationship should be used?

A. Lookup B. Master Detail C. Indirect lookup D. Direct Lookup

2. Which three statements are accurate about debug logs? Choose 3 answers

A. TO View Debug Logs, "Manage Users" or "View all Data" permission is needed.

B. Amount of information logged in the debug log can be controlled by the log levels.

C. Debug Log Levels are cumulative, where FINE Log level includes all events logged at the DEBUG, INFO, WARN and ERROR levels.

D. To View Debug Logs, "Manager Users" or "Modify All Data" permission is needed.

E. Amount of information logged in the debug log can be controlled programmatically.

3. A developer wants to mark each Account in a List<Account> as either Active or Inactive based on the LastModifiedDate field value being more then 90 days. Which Apex technique should the developer user?

A. A Switch statement, with a for loop inside.

B. A for loop, with an if/else statement inside.

C. An if/else statement, with a for loop inside.

D. A for loop, with a switch statement inside.

4. Which scenario is valid for execution by unit tests?

A. Load data from a remote site with a callout.

B. Execute anonymous Apex as a different user.

C. Set the created date of a record using a system method.

D. Generate a Visualforce PDF with getContentAsPDF().

5. Which scenario is invalid for execution by unit test?

A. Executing methods for negative test scenario.

B. Executing methods as different users.

C. Loading test data in place of user input for Flows.

D. Load the standard Pricebook ID using a system method.

5. How should a developer write unit tests for a private method in an Apex class?

A. Add a test method in the Apex class.

B. Mark the Apex class as global.

C. Use the SeeAllData annotation.

D. Use the TestVisible annotation.

6. What is a valid statement about Apex classes and interfaces? Choose 2 answers:

A. A class can have multiple levels of inner classes. B. The default modifier for an interface is private.

C. The default modifier for a class is private. **D. Exception classes must end with the word exception.**

6. Which two statements are accurate regarding Apex classes and interfaces?

A. Inner classes are public by default.

B. Interface methods are public by default.

C. A TOP-LEVEL Class can only have one inner class level.

D. Classes are final by default.

7. A developer must create an Apex class, ContactController, that a Lightning component can use to search for Contact records. Users of the Lightning component should only be able to search for Contact records to which they have access. Which two will restrict the records correctly?

(Choose two.)

A. public class ContactController.

B. public with sharing class ContactController

C. public without sharing class ContactController

D. public inherited sharing class ContactController

8. The following Apex method is part of the ContactService class that is called from a trigger:

```
public static void setBusinessUnitToEMEA(Contact thisContact){
    thisContact.Business_Unit__c = 'EMEA';
    update thisContact;
}
```

How should the developer modify the code to ensure best practices are met?

A.

```
public void setBusinessUnitToEMEA(List<Contact> contacts){
    contacts[0].Business_Unit__c = 'EMEA';
    update contacts[0];
}
```

B.

```
public static void setBusinessUnitToEMEA(List<Contact> contacts){
    for(Contact thisContact : contacts){
        thisContact.Business_Unit__c = 'EMEA';
        update contacts[0];
    }
}
```

C.

```
public static void setBusinessUnitToEMEA(Contact thisContact){
    List<Contact> contacts = new List<Contact>();
    contacts.add(thisContact.Business_Unit__c = 'EMEA');
    update contacts;
}
```

D.

```
public static void setBusinessUnitToEMEA(List<Contact> contacts){
    for(Contact thisContact : contacts){
        thisContact.Business_Unit__c = 'EMEA';
    }
    update contacts;
}
```

9. A developer wants to retrieve the Contacts and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?

A. FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)

B. FIND {Email = 'dev@uc.com'} IN Contact, User

C. FIND {Email = 'dev@uc.com'} RETURNING Contact (Email), User (Email)

D. FIND Email IN Contact, User FOR {dev2uc.com}

10. A custom picklist field, Food_Preference__c, exist on a custom object. The picklist contains the following options: 'Vegan','Kosher','No Preference'. The developer must ensure a value is populated every time a record is created or updated. What is the most efficient way to ensure a value is selected every time a record is saved?

A. Mark the field as Required on the field definition.

B. Set a validation rule to enforce a value is selected.

C. Set "Use the first value in the list as the default value" as True.

D. Mark the field as Required on the object's page layout.

11. A developer considers the following snippet of code:

```
Boolean isOK;
integer x;
String theString = 'Hello';

if (isOK == false && theString == 'Hello'){
   x = 1;
} else if (isOK == true && theString == 'Hello'){
   x = 2;
} else if (isOK != null && theString == 'Hello'){
   x = 3;
} else {
   x = 4;
}
```

Based on this code, what is the value of x?

A. 1 B. 2 C. 3 **D. 4**

12. Universal Containers implemented a private sharing model for the Account object. A custom Account search tool was developed with Apex to help sales representatives find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see Accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged-in user while using the custom search tool?

A. Use the schema describe calls to determine if the logged-in user has access to the Account object.
B. Use the UserInfo Apex class to filter all SOQL queries to returned records owned by the logged-in user.
C. Use the with sharing keyword on the class declaration.
D. Use the without sharing keyword on the class declaration.

13. A developer created this Apex trigger that calls MyClass.myStaticMethod: trigger myTrigger on Contact(before insert) { MyClass.myStaticMethod(trigger.new, trigger.oldMap); }
The developer creates a test class with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?

A. The deployment fails because no assertions were made in the test method.
B. The deployment passes because both classes and the trigger were included in the deployment.
C. The deployment passes because the Apex code has required (>75%) code coverage.
D. The deployment fails because the Apex trigger has no code coverage.

14. A developer is debugging the following code to determine why Accounts are not being created.
Account a = new Account(Name = 'A'); Database.insert(a, false);
How should the code be altered to help debug the issue?

A. Add a System.debug() statement before the insert method.
B. Collect the insert method return value in a SaveResult record.
C. Set the second insert method parameter to TRUE.
D. Add a try/catch around the insert method.

15. Which Salesforce org has a complete duplicate copy of the production org including data and configuration?

A. Developer Pro Sandbox. B. Partial Copy Sandbox. C. Production. **D. Full Sandbox.**

***16. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time that an Account is created or updated. The field update in the workflow rule is configured to not re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?**

A. 1 **B. 3** C. 4 **D. 2**

17. A developer must create a CreditCardPayment class that provides an implementation of an existing Payment class.

```
public virtual class Payment {
    public virtual void makePayment(Decimal amount) { /*implementation*/ }
}
```

Which is the correct implementation?

A.

```
public class CreditCardPayment extends Payment {
    public virtual void makePayment(Decimal amount) { /*implementation*/ }
}
```

B.

```
public class CreditCardPayment extends Payment {
    public override void makePayment(Decimal amount) { /*implementation*/ }
}
```

C.

```
public class CreditCardPayment implements Payment {
    public virtual void makePayment(Decimal amount) { /*implementation*/ }
}
```

D.

```
public class CreditCardPayment implements Payment {
    public override void makePayment(Decimal amount) { /*implementation*/ }
}
```

18. Universal Containers wants a list button to display a Visualforce page that allows users to edit multiple records.
Which Visualforce feature supports this requirement?

A. <apex:listButton> tag. **B. recordSetVar page attribute.** C. custom controller. D. controller extension

19. Given the following Apex statement: Account myAccount = [SELECT Id, Name FROM Account];

What occurs when more than one Account is returned by the SOQL query?

A. The variable, myAccount, is automatically cast to the List data type.
B. The first Account returned is assigned to myAccount.
C. The query fails and an error is written to the debug log.
D. An unhandled exception is thrown and the code terminates.

20. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so. What is a possible reason that this change was not permitted?

A. The Vendor records have existing values in the Account object.

B. The Account object is included on a workflow on the Vendor object.

C. The Account records contain Vendor roll-up summary fields.

D. The Vendor object must use a Master-Detail field for reporting.

21. A developer must provide a custom user interface when users edit a Contact. Users must be able to use the interface in Salesforce Classic and Lightning Experience. What should the developer do to provide the custom user interface?

A. Override the Contact's Edit button with a Visualforce page in Salesforce Classic and a Lightning component in Lightning Experience.

B. Override the Contact's Edit button with a Visualforce page in Salesforce Classic and a Lightning page in Lightning Experience.

C. Override the Contact's Edit button with a Lightning component in Salesforce Classic and a Lightning component in Lightning Experience.

D. Override the Contact's Edit button with a Lightning page in Salesforce Classic and a Visualforce page in Lightning Experience.

22. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class?

A. @StartTest. B. @PreTest. **C. @TestSetup.** D. @isTest(SeeAllData=true)

23. What will be the output in the debug log in the event of a QueryException during a call to the aQuery method in the following example?

```
class myClass {
  class CustomException extends QueryException {}
  public static Account aQuery() {
    Account theAccount;
    try {
      system.debug('Querying Accounts.');
      theAccount = [SELECT Id FROM Account WHERE CreatedDate > TODAY];
    }
    catch (CustomException eX) {
      system.debug('Custom Exception.');
    }
    catch (QueryException eX) {
      system.debug('Query Exception.');
    }
    finally {
      system.debug('Done.');
    }
    return theAccount;
  }
}
```

A. Querying Accounts. Query Exception.
B. Querying Accounts. Custom Exception.
C. Querying Accounts. Custom Exception. Done.
D. Querying Accounts. Query Exception. Done.

24. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a PostalCodeToTimezone__c custom object.
How should a developer implement this feature?

A. Build an Account Workflow Rule.
B. Build an Account Assignment Rule.
C. Build an Account custom Trigger.
D. Build an Account Approval Process.

25. Which three statements are true regarding custom exceptions in Apex? (Choose three.)
A. A custom exception class must extend the system Exception class.
B. A custom exception class can implement one or many interfaces.
C. A custom exception class cannot contain member variables or methods.
D. A custom exception class name must end with "Exception".
E. A custom exception class can extend other classes besides the Exception class.

26. Which aspect of Apex programming is limited due to multitenancy?

A. The number of methods in an Apex class

B. The number of records returned from database queries

C. The number of active Apex classes

D. The number of records processed in a loop

27. A developer observes that an Apex test method fails in the Sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the Execute Anonymous tool in the Developer Console. The code then executes with no exceptions or errors.
Why did the test method fail in the sandbox and pass in the Developer Console?

A. The test method has a syntax error in the code.

B. The test method does not use System.runAs to execute as a specific user.

C. The test method is calling an @future method.

D. The test method relies on existing data in the sandbox.

28. The Job_Application__c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the contact's Job_Application__c records. Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?

A. [SELECT Id, (SELECT Id FROM Job_Applications_r) FROM Contact WHERE Account.Industry = 'Technology'];

B. [SELECT Id, (SELECT Id FROM Job_Applications_r) FROM Contact WHERE Accounts.Industry = 'Technology'];

C. [SELECT Id, (SELECT Id FROM Job_Applications_c) FROM Contact WHERE Accounts.Industry = 'Technology'];

D. [SELECT Id, (SELECT Id FROM Job_Application_c) FROM Contact WHERE Account.Industry = 'Technology'];

29. What is the order of operations when a record is saved in Salesforce?

A. Workflow, process flows, triggers,commit.

B. Process flows, triggers, workflow, commit

C. Triggers, workflow, process flows, commit.

D. Workflow, triggers, process flows, commit

30. Universal Containers (UC) decided it will not send emails to support personnel directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system be notified of the error. What is the appropriate publish/subscribe logic to meet these requirements?

A. Publish the error event using the addError() method and write a trigger to subscribe to the event and notify the external system.

B. Publish the error event using the Eventbus.publish() method and have the external system subscribe to the event using CometD.

C. Have the external system subscribe to the BatchApexError event, no publishing is necessary.

D. Publish the error event using the addError() method and have the external system subscribe to the event using CometD.

***31. A developer must create a Lightning component that allows users to input Contact record information to create a Contact record, including a Salary__c custom field. What should the developer use, along with a lightning-record-edit-form, so that Salary__c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on Salary__c?**

A.

```
<lightning-input type="number" value="Salary__c" formatter="currency">
</lightning-input>
```

B.

```
<lightning-formatted-number value="Salary__c" format-style="currency">
</lightning-formatted-number>
```

***C.**

```
<lightning-input-field field-name="Salary__c">
</lightning-input-field>
```

D.

```
<lightning-input-currency value="Salary__c">
</lightning-input-currency>
```

32. Which three steps allow a custom SVG to be included in a Lightning web component? (Choose three.)

A. Upload the SVG as a static resource.

B. Reference the getter in the HTML template.

C. Import the SVG as a content asset file.

D. Import the static resource and provide a getter for it in JavaScript.

E. Reference the import in the HTML template.

33. Which two are best practices when it comes to Aura component and application event handling? (Choose two.)

A. Reuse the event logic in a component bundle, by putting the logic in the helper.

B. Use component events to communicate actions that should be handled at the application level.

C. Handle low-level events in the event handler and re-fire them as higher-level events.

D. Try to use application events as opposed to component events.

34. What is the maximum number of SOQL queries used by the following code?

```
List<Account> aList = [SELECT Id FROM Account LIMIT 5];
for (Account a : aList){
  List<Contact> cList = [SELECT Id FROM Contact WHERE AccountId = :a.Id);
}
```

A. 1 B. 5 **C. 6** D. 2

35. When using SalesforceDX, what does a developer need to enable to create and manage scratch orgs?

A. Production. B. Environment Hub. **C. Dev Hub.** D. Sandbox

36. In terms of the MVC paradigm, what are two advantages of implementing the view layer of a Salesforce application using Aura Component-based development over Visualforce? (Choose two.)

A. Self-contained and reusable units of an application. **B. Rich component ecosystem**
C. Server-side run-time debugging. D. Automatic code generation

37. What are two ways for a developer to execute tests in an org? (Choose two.)
A. Tooling API. **B. Developer Console.** C. Metadata API. D. Bulk API

Note: A developer can execute tests on Apex class in the following ways:

1. Setup menu on salesforce UI (using setup → Apex Test Execution)
2. From Visual studio code
3. From Developer console
4. Use the runTests() call from the SOAP API to run tests synchronously
5. Using the Tooling REST API. Use the /runTestsAsynchronous/ and /runTestsSynchronous/ endpoints to run tests asynchronously or synchronously.
6. Run tests asynchronously using ApexTestQueueItem.

38. A developer identifies the following triggers on the Expense__c object: deteleExpense, applyDefaultsToExpense, validateExpenseUpdate; The triggers process before delete, before insert, and before update events respectively. Which two techniques should the developer implement to ensure trigger best practices are followed? (Choose two.)
A. Unify the before insert and before update triggers and use Process Builder for the delete action.
B. Create helper classes to execute the appropriate logic when a record is saved.
C. Maintain all three triggers on the Expense__c object, but move the Apex logic out of the trigger definition.
D. Unify all three triggers in a single trigger on the Expense__c object that includes all events.

39. What is a fundamental difference between a Master-Detail relationship and a Lookuprelationship?
A. In a Master-Detail relationship, when a record of a master object is deleted, the detail records are not deleted.
B. In a Lookup relationship when the parent record is deleted, the child records are always deleted.
C. A Master-Detail relationship detail record inherits the sharing and security of its master record.
D. In a Lookup relationship, the field value is mandatory.

40. A Lightning component has a wired property, searchResults, that stores a list of Opportunities. Which definition of the Apex method, to which the searchResults property is wired, should be used?

A.

```
@AuraEnabled(cacheable=false)
public static List<Opportunity> search(String term) { /*implementation*/ }
```

B.

```
@AuraEnabled(cacheable=false)
public List<Opportunity> search(String term) { /*implementation*/ }
```

C.

```
@AuraEnabled(cacheable=true)
public static List<Opportunity> search(String term) { /*implementation*/ }
```

D.

```
@AuraEnabled(cacheable=true)
public List<Opportunity> search(String term) { /*implementation*/ }
```

41. Cloud Kicks Fitness, an ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV's package namespace. Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?

A. Declare the class and method using the public access modifier.
B. Declare the class as global and use the public access modifier on the method.
C. Declare the class as public and use the global access modifier on the method.
D. Declare the class and method using the global access modifier.

42. A developer has a Visualforce page and custom controller to save Account records. The developer wants to display any validation rule violations to the user. How can the developer make sure that validation rule violations are displayed?

A. Add custom controller attributes to display the message.
B. Use a try/catch with a custom exception class.
C. Include <apex:messages> on the Visualforce page.
D. Perform the DML using the Database.upsert() method.

43. Application Events follow the traditional publish-subscribe model. Which method is used to fire an event?

A. registerEvent(). B. fireEvent(). C. emit(). **D. fire()**

44. A developer must write an Apex method that will be called from a Lightning component. The method may delete an Account stored in the accountRec variable.
Which method should a developer use to ensure only users that should be able to delete Accounts can successfully perform deletions?
A. Schema.sObjectType.Account.isDeletable(). B. Account.isDeletable()
C. accountRec.isDeletable(). D. accountRec.sObjectType.isDeletable()

45. Which three process automations can immediately send an email notification to the owner of an Opportunity when its Amount is changed to be greater than
$10,000? (Choose three.)
A. Process Builder. B. Escalation Rule. **C. Flow Builder**. D. Approval Process. **E. Workflow Rule**

46. A developer wants to import 500 Opportunity records into a sandbox.
Why should the developer choose to use Data Loader instead of Data Import Wizard?
A. Data Loader runs from the developer's browser.
B. Data Loader automatically relates Opportunities to Accounts.
C. Data Import Wizard does not support Opportunities.
D. Data Import Wizard cannot import all 500 records.

47. Which Salesforce feature allows a developer to see when a user last logged in to Salesforce if real-time notification is not required?
A. Event Monitoring Log. B. Calendar Events. C. Developer Log. D. Asynchronous Data Capture Events

***48. A Licensed_Professional__c custom object exists in the system with two Master-Detail fields for the following objects: Certification__c and Contact. Users with the "Certification Representative" role can access the Certification records they own and view the related Licensed Professionals records, however users with the "Sales Representative" role report they cannot view any Licensed Professional records even though they own the associated Contact record. What are two likely causes of users in the "Sales Representative" role not being able to access the Licensed Professional records?**

(Choose two.)
A. The organization has a private sharing model for Certification__c. and Certification__c is the primary relationship in the Licensed_Professional__c object.
B. The organization's sharing rules for Licensed_Professional__c have not finished their recalculation process.
C. The organization recently modified the Sales Representative role to restrict Read/Write access to Licensed_Professional__c.
D. The organization has a private sharing model for Certification__c, and Contact is the primary relationship in the Licensed_Professional__c object.

E. The organization recently modified the Sales Representative role to restrict Read access to Licensed_Professional__c.

***49. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions.**
How should the developer declare maxAttempts to meet these requirements?
A. Declare maxAttempts as a private static variable on a helper class.
B. Declare maxAttempts as a variable on a helper class.
C. Declare maxAttempts as a member variable on the trigger definition.
D. Declare maxAttempts as a constant using the static and final keywords.

50. Which two conditions cause workflow rules to fire? (Choose two.)
A. An Apex Batch process that changes field values.
B. Updating records using the bulk API
C. Converting leads to person accounts
D. Changing the territory assignments of accounts and opportunities

***51. A developer must create a ShippingCalculator class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.**
What is the correct implementation of the ShippingCalculator class?
A.

```
public abstract class ShippingCalculator {
    public abstract calculate() { /*implementation*/ }
```

B.

```
public abstract class ShippingCalculator {
    public virtual void calculate() { /*implementation*/ }
```

C.

```
public abstract class ShippingCalculator {
    public void calculate() { /*implementation*/ }
```

D.

```
public abstract class ShippingCalculator {
    public override calculate() { /*implementation*/ }
```

52. Which three statements are true regarding trace flags? (Choose three.)
A. Setting trace flags automatically cause debug logs to be generated.
B. Logging levels override trace flags.
C. Trace flags override logging levels.
D. If active trace flags are not set, Apex tests execute with default logging levels.
E. Trace flags can be set in the Developer Console, Setup, or using the Tooling API.

53. A developer needs an Apex method that can process Account or Contact records.
Which method signature should the developer use?
A. public void doWork(Account | | Contact)
B. public void doWork(Record theRecord)
C. public void doWork(Account Contact)
D. public void doWork(sObject theRecord)

54. A developer needs to update an unrelated object when a record gets saved.
Which two trigger types should the developer create? (Choose two.)
A. after insert. B. before update. C. before insert. **D. after update**

55. An after trigger on the Account object performs a DML update operation on all of the child Opportunities of an Account. There are no active triggers on the Opportunity object, yet a "maximum trigger depth exceeded" error occurs in certain situations.
Which two reasons possibly explain the Account trigger firing recursively? (Choose two.)

A. Changes to Opportunities are causing cross-object workflow field updates to be made on the Account.
B. Changes to Opportunities are causing roll-up summary fields to update on the Account.
C. Changes are being made to the Account during an unrelated parallel save operation.
D. Changes are being made to the Account during Criteria Based Sharing evaluation.

56. Which statement is true about developing in a multi-tenant environment?
A. Apex Sharing controls access to records from multiple tenants on the same instance.
B. Org-level data security controls which users can see data from multiple tenants on the same instance.
C. Governor limits prevent Apex from impacting the performance of multiple tenants on the same instance.
D. Global Apex classes can be referenced from multiple tenants on the same instance.

57. What are three techniques that a developer can use to invoke an anonymous block of code? (Choose three.)
A. Use the SOAP API to make a call to execute anonymous code.
B. Create a Visualforce page that uses a controller class that is declared without sharing.
C. Run code using the Anonymous Apex feature of the Developer's IDE.
D. Type code into the Developer Console and execute it directly.
E. Create and execute a test method that does not specify a runAs() call.

58. Which declarative process automation feature supports iterating over multiple records?
A. Workflow rules. **B. Flows.** C. Validation rules. D. Approval processes

59. An org has a data model with a Buyer__c object that has a lookup relationship to Region__c and a Supplier__c object has a lookup relationship to Region___c.
How can a developer display data from the related Supplier__c records on a Visualforce page that has a standard controller for the Buyer__c object?
A. Use rollup formula fields on the Buyer__c object to reference the related Supplier__c records through the Region__c.
B. Use SOQL in a controller extension to query for related Supplier__c records.
C. Use a second standard controller for the Region__c object on a page to display the related Supplier__c records.
D. Use merge field syntax to retrieve the Supplier__c records related to the Buyer__c record through the Region__c.

60. What can be used to delete components from production?
A. A change set deployment with a destructiveChanges XML file
B. A change set deployment with the delete option checked
C. An ant migration tool deployment with a destructiveChanges XML file and an empty package.xml file
D. An ant migration tool deployment with a desctuctiveChanges XML file and the components to delete in the package.xml file

61. A developer needs to save a List of existing Account records named myAccounts to the database, but the records do not contain Salesforce Id values. Only the value of a custom text field configured as an External ID with an API name of Foreign_Key__c is known.
Which two statements enable the developer to save the records to the database without an Id? (Choose two.)
A. Upsert myAccounts Foreign_Key__c;
B. Upsert myAccounts(Foreign_Key__c);
C. Database.upsert (myAccounts, Foreign_Key__c);
D. Database.upsert(myAccounts).Foreign_Key__c;

62. Which standard field is required when creating a new Contact record?
A. LastName. B. Name. C. AccountId. D. FirstName

63. What is a benefit of using a trigger framework?
A. Reduces trigger execution time. B. Allows functional code to be tested by a test class
C. Increases trigger governor limits. **D. Simplifies addition of context-specific logic**

64. Which invocation of a class method will obey the organization-wide defaults and sharing settings for the running user in the Salesforce organization?

A. An Apex trigger that invokes a helper method in this class

B. A developer using the Developer Console that invokes a method in this class from the execute anonymous window

C. A Visualforce page with an Apex controller that invokes a method in this class

D. A user on an external system that has an API call into Salesforce that invokes a method in this class

65. When a Task is created for a Contact, how can a developer prevent the task from being included on the Activity Timeline of the Contact's Account record?

A. In Activity Setting, uncheck Roll up activities to a contact's primary account.

B. Create a Task trigger to set the Account field to NULL.

C. Use Process Builder to create a process to set the Task Account field to blank.

D. By default, tasks do not display on the Account Activity Timeline.

66. Candidates are reviewed by four separate reviewers and their comments and scores which range from 1 (lowest) to 5 (highest) are stored on a review record that is a detail record for a candidate. What is the best way to indicate that a combined review score of 15 or better is required to recommend that the candidate come in for an interview?

A. Use a Validation Rule on a total score field on the candidate record that prevents a recommended field from being true if the total score is less than 15.

B. Use a Rollup Summary field to calculate the sum of the review scores, and store this in a total score field on the candidate.

C. Use Visual Workflow to set a recommended field on the candidate whenever the cumulative review score is 15 or better.

D. Use a Workflow Rule to calculate the sum of the review scores and send an email to the hiring manager when the total is 15 or better.

67. A developer needs to find information about @future methods that were invoked. From which system monitoring feature can the developer see this information?

A. Scheduled Jobs. **B. Apex Jobs.** C. Background Jobs. D. Asynchronous Jobs

68. A change set deployment from a sandbox to production fails due to a failure in a managed package unit test. The developer spoke with the managed package owner and they determined it is a false positive and can be ignored. What should the developer do to successfully deploy?

A. Select "Run local tests" to run all tests in the org that are not in the managed package.

B. Select "Fast Deploy" to run only the tests that are in the change set.

C. Select "Run local tests" to run only the tests that are in the change set.

D. Edit the managed package's unit test.

69. A developer needs to include a Visualforce page in the detail section of a page layout for the Account object, but does not see the page as an available option in the Page Layout Editor.
Which attribute must the developer include in the <apex:page> tag to ensure the Visualforce page can be embedded in a page layout?

A. standardController= "Account" B. extensions= "AccountController"
C. controller= "Account" D. action= "AccountId"

70. What is the impact of declaring an Apex class using the "without sharing" keywords?
A. Only records owned by the current user can be updated.
B. Sharing restrictions for the current user are bypassed.
C. Records created by the class cannot have sharing rules.
D. The class can only be used by users with developer rights.

71. Using DescribeSObjectResult, which Apex method can a developer use to determine if the current user can edit records for an object?
A. canUpdate(). B. canEdit(). **C. isUpdateable().** D. isEditable()

72. A developer needs to create an audit trail for records that are sent to the recycle bin.
Which type of trigger is most appropriate to create?
A. after delete. B. after undelete. C. before undelete. D. before delete

73. In which three areas can a Lightning component be used in the Lightning Experience? (Choose three.)
A. Lightning Report page. B. Lightning Connect page.
C. Lightning Record Page. **D. Lightning Community Page.** **E. Lightning Home page**

74. Given the code below, which three statements can be used to create the controller variable? (Choose three.)

```
public class AccountListController {

      public List<Account> getAccounts() {
          return controller.getRecords();
      }
}
```

A.

```
ApexPages.StandardSetController controller =
new ApexPages.StandardSetController(Database.query('SELECT Id FROM Account'));
```

B.

```
ApexPages.StandardSetController controller =
new ApexPages.StandardSetController(Database.getQueryLocator('SELECT Id FROM Account'));
```

C.

```
ApexPages.StandardController controller =
new ApexPages.StandardController(Database.getQueryLocator('SELECT Id FROM ACCOUNT'));
```

D.

```
ApexPages.StandardController controller =
new ApexPages.StandardController([SELECT Id FROM Account]);
```

E.

```
ApexPages.StandardSetController controller =
new ApexPages.StandardSetController(Database.getQueryLocator([SELECT Id FROM Account]));
```

75. How can a developer get all of the available record types for the current user on the Case object?

A. Use DescribeSObjectResult of the Case object.

B. Use SOQL to get all Cases.

C. Use DescribeFieldResult of the Case.RecordType field.

D. Use Case.getRecordTypes().

76. An Account trigger updates all related Contacts and Cases each time an Account is saved using the following two DML statements: update allContacts; update allCases;
What is the result if the Case update exceeds the governor limit for maximum number of DML records?

A. The Account save fails and no Contacts or Cases are updated.

B. The Account save succeeds and no Contacts or Cases are updated.

C. The Account save succeeds, Contacts are updated, but Cases are not.

D. The Account save is retried using a smaller trigger batch size.

77. A company has a custom object named Region. Each Account in Salesforce can only be related to one Region at a time, but this relationship is optional. Which type of relationship should a developer use to relate an Account to a Region?

A. Parent-Child. B. Hierarchical. **C. Lookup.** D. Master-Detail

78. Which control statement should a developer use to ensure that a loop body executes at least once?

A. for (init_stmt; exit_condition; increment_stmt) {…}

B. do {…} while (condition)

C. while (condition) {…}

D. for (variable : list_or_set) {…}

79. A developer creates a custom controller and custom Visualforce page by using the code block below. What can the user expect to see when accessing the custom page?

```
public class MyController {
    public String myString {
        get {
            if (myString == null) {
                myString = 'a';
            }
            return myString;
        } private set;
    }
    public String getMyString() {
        return 'getMyString';
    }
    public String getStringMethod() {
        if (myString == null) {
            myString = 'b';
        }
        return myString;
    }
}
```

```
<apex:page controller="MyController">
    {!StringMethod}, {!myString}, {!myString}
</apex:page>
```

A. a, b, b B. a, b, getMyString **C. a, a, a** D. b, a, getMyString

80. How can a developer warn users of SOQL governor limit violations in a trigger?

A. Use Messaging.SendEmail() to continue the transaction and send an alert to the user after the number of SOQL queries exceeds the limit.

B. Use PageReference.setRedirect() to redirect the user to a custom Visualforce page before the number of SOQL queries exceeds the limit.

C. Use Limits.getQueries() and display an error message before the number of SOQL queries exceeds the limit.

D. Use ApexMessage.Message() to display an error message after the number of SOQL queries exceeds the limit.

81. How many levels of child records can be returned in a single SOQL query from one parent object?

A. 1 B. 3 C. 5 D. 7

82. Which two declarative process automation features can be directly invoked when a field value changes on a record? (Choose two.)

A. Cloud Flow Designer flows. **B. Process Builder processes.** C. Validation rules. **D. Workflow rules**

83. In order to override a standard action with a Visualforce page, which attribute must be defined in the <apex:page> tag?

A. pageReference. B. override. C. controller. **D. standardController**

84. Which feature allows a developer to create test records for use in test classes?
A. Documents. B. WebServiceTests. C. HttpCalloutMocks. **D. Static Resources**

85. A developer wants multiple test classes to use the same set of test data.
How should the developer create the test data?
A. Reference a test utility class in each test class.
B. Define variables for test records in each test class.
C. Create a Test Setup method for each test class.
D. Use the SeeAllData=true annotation in each test class.

86. A developer wants to display all of the picklist entries for the Opportunity StageName field and all of the available record types for the Opportunity object on a Visualforce page.
Which two actions should the developer perform to get the available picklist values and record types in the controller? (Choose two.)
A. Use Schema.RecordTypeInfo returned by Opportunity.SObjectType.getDescribe().getRecordTypeInfos().
B. Use Schema.PicklistEntry returned by Opportunity.SObjectType.getDescribe().getPicklistValues ().
C. Use Schema.RecordTypeInfo returned by RecordType.SObjectType.getDescribe().getRecordTypeInfos().
D. Use Schema.PicklistEntry returned by Opportunity.StageName.getDescribe().getPicklistValues ().

87. Which situation prevents a developer from setting sharing rules for a custom object?
A. The object's Sharing Settings is set to Public Read/Write.
B. The object is on the detail side of a Master-Detail relationship.
C. The developer is not a System Administrator.
D. The object is referenced in an Owner field of a Master-Detail relationship.

88. A developer wants to store a description of a product that can be entered on separate lines by a user during product setup and later displayed on a Visualforce page for shoppers.
Which field type should the developer choose to ensure that the description will be searchable in the custom Apex SOQL queries that are written?
A. Text Area. B. Text. C. Text Area (Long). D. Text Area (Rich)

89. Which is a valid Apex assignment?
A. Integer x=5*1.0; B. Integer x =5.0; **C. Double x =5;** D. Float x =5.0;

90. The Account object has a custom Percent field, Rating, defined with a length of 2 with 0 decimal places. An Account record has the value of 50% in its Rating field and is processed in the Apex code below after being retrieved from the database with SOQL.

```
public void processAccount() {
    Decimal acctScore = acct.Rating__c * 100;
    ...
}
```

What is the value of acctScore after this code executes?
A. 5 B. 50 C. 500 **D. 5000**

91. An Apex transaction inserts 100 Account records and 2,000 Contact records before encountering a DML exception when attempting to insert 500 Opportunity records.
The Account records are inserted by calling the database.insert() method with the allOrNone argument set to false. The Contact and Opportunity records are inserted using the standalone insert statement. How many total records will be committed to the database in this transaction?

A. 2,000 B. 2,100 **C. 0** D. 100

92. The sales team at Universal Containers would like to see a visual indicator appear on both Account and Opportunity page layouts to alert salespeople when an
Account is late making payments or has entered the collections process.
What can a developer implement to achieve this requirement without having to write custom code?

A. Formula Field B. Workflow Rule C. Quick Action D. Roll-up Summary Field

93. A developer has the following code:Which message is logged by the code below?

```
try{
     List<Id> idList;
     Account a;
     insert a;
     Id acctId = a.Id;
     idList.add( acctId );
}catch ( ListException le ){
     System.debug('List Exception');
}catch ( NullPointerException npe ){
     System.debug('NullPointer Exception');
}catch ( Exception e ){
     System.debug('Generic Exception');
}
```

A. Generic Exception
B. List Exception
C. NullPointer Exception
D. No message is logged.

94. Which governor limit applies to all the code in an Apex transaction?

A. Elapsed SOQL query time. B. Number of classes called
C. Number of new records created **D. Elapsed CPU time**

95. Given the code below, what can be done so that recordCount can be accessed by a test class, but not by a non-test class?

```
public class MyController {
     private Integer recordCount;
}
```

A. Change recordCount from private to public.
B. Add the SeeAllData annotation to the test class.
C. Add the TestVisible annotation to recordCount.
D. Add the TestVisible annotation to the MyController class.

96. The Review_c object has a lookup relationship up to the Job_Application_c object. The Job_Application_c object has a master-detail relationship up to the Position_c object. The relationship field names are based on the auto-populated defaults. What is the recommended way to display field data from the related Position_c record on a Visualforce page for a single Review_c record?

A. Use the Standard Controller for Review_c and cross-object Formula Fields on the Position_c object to display Position_c data.

B. Use the Standard Controller for Job_Application_c and a Controller Extension to query for Position_c data.

C. Use the Standard Controller for Job_Application_c and cross-object Formula Fields on the Review_c object to display Position_c data.

D. Use the Standard Controller for Review_c and expression syntax in the Page to display related Position_c data through the Job_Application_c object.

97. Which action can a developer take to reduce the execution time of the following code?

```
List<Account> allAccounts = [SELECT Id FROM Account];
List<Contact> allContacts = [SELECT Id, AccountId FROM Contact];

for (Account a : allAccounts){
  for (Contact c: allContacts){
    if (c.AccountId = a.Id){
      // do work
    }
  }
}
```

A. Put the Account loop inside the Contact loop. B. Create an Apex helper class for SOQL.

C. Add a GROUP BY clause to the Contact SOQL. **D. Use a Map<Id List<Contact> for allContacts.**

98. A developer can use the debug log to see which three types of information? (Choose three.)

A. HTTP callouts to external systems

B. Database changes

C. Resource usage and limits

D. User login events

E. Actions triggered by time-based workflow

99. Which three data types can be returned from an SOQL statement? (Choose three.)

A. Boolean. **B. List of sObjects.** **C. Single sObject.** **D. Integer.** E. String

100. Managed Packages can be created in which type of org?

A. Developer Sandbox. B. Partial Copy Sandbox. C. Unlimited Edition. **D. Developer Edition**

101. A developer has the following class and trigger code.

```
public class InsuranceRates {
      public static final Decimal smokerCharge = 0.01;
       …
}

trigger ContactTrigger on Contact (before insert) {
       InsuranceRates rates = new InsuranceRates();
       Decimal baseCost = XXX;
        …
}
```

Which code segment should a developer insert at the XXX to set the baseCost variable to the value of the class variable smokerCharge?

A. InsuranceRates.smokerCharge

B. rates.getSmokerCharge()

C. ContactTrigger.InsuranceRates.smokerCharge

D. rates.smokerCharge

102. Requirements state that a child record is deleted when its parent is deleted, and a child can be moved to a different parent when necessary.

Which type of relationship should be built between the parent and child objects in Schema builder to support these requirements?

A. Master-Detail relationship. B. Child relationship

C. Lookup relationship from the parent to the child. D. Lookup relationship from the child to the parent

103. Which tag should a developer include when styling from external CSS is required in a Visualforce page?

A. apex:includeStyles. B. apex:includeScript. C. apex:require. **D. apex:stylesheet**

104. Which type of code represents the Model in the MVC architecture when using Apex and Visualforce pages?

A. A Controller Extension method that saves a list of Account records

B. Custom JavaScript that processes a list of Account records

C. A list of Account records returned from a Controller Extension method

D. A Controller Extension method that uses SOQL to query for a list of Account records

105. What is the debug output of the following Apex code?

```
Decimal theValue;
System.debug(theValue);
```

A. 0.0 **B. null** C. Undefined D. 0

106. A developer needs to provide a way to mass edit, update, and delete records from a list view. In which two ways can this be accomplished? (Choose two.)

A. Create a new Visualforce page and Apex Controller for the list view that provides mass edit, update, and delete functionality.

B. Download a managed package from the AppExchange that provides customizable Enhanced List Views and buttons.

C. Download an unmanaged package from the AppExchange that provides customizable mass edit, update, and delete functionality.

D. Configure the user interface and enable both inline editing and enhanced lists.

107. Which two practices should be used for processing records in a trigger? (Choose two.)

A. Use a Map to reduce the number of SOQL calls.

B. Use @future methods to handle DML operations.

C. Use a Set to ensure unique values in a query filter.

D. Use (callout=true) to update an external system.

108. Which two statements are acceptable for a developer to use inside procedural loops? (Choose two.)

A. delete contactList; **B. contactList.remove(i);** **C. Contact con = new Contact();**

D. Account a = [SELECT Id, Name FROM Account WHERE Id = :con.AccountId LIMIT 1];

109. Which two statements are true about Apex code executed in Anonymous Blocks? (Choose two.)

A. The code runs with the permissions of the user specified in the runAs() statement.

B. The code runs with the permissions of the logged in user.

C. The code runs in system mode having access to all objects and fields.

D. All DML operations are automatically rolled back.

E. Successful DML operations are automatically committed.

110. From which two locations can a developer determine the overall code coverage for a sandbox? (Choose two.)

A. The Apex Test Execution page

B. The Test Suite Run panel of the Developer Console

C. The Apex classes setup page

D. The Tests tab of the Developer Console

111. Which two components are available to deploy using the Metadata API? (Choose two.)

A. Lead Conversion Settings B. Web-to-Case C. Web-to-Lead **D. Case Settings**

112. Which three statements are true regarding cross-object formulas? (Choose three.)

A. Cross-object formulas can reference fields from objects that are up to 10 relationships away.

B. Cross-object formulas can reference fields from master-detail or lookup relationships.

C. Cross-object formulas can reference child fields to perform an average.

D. Cross-object formulas can expose data the user does not have access to in a record.
E. Cross-object formulas can be referenced in roll-up summary fields.

113. A developer has JavaScript code that needs to be called by controller functions in multiple Aura components by extending a new abstract component. Which resource in the abstract Aura component bundle allows the developer to achieve this?
A. helper.js B. controller.js C. superRender.js D. renderer.js

114. Which option should a developer use to create 500 Accounts and make sure that duplicates are not created for existing Account Sites?
A. Sandbox template B. Data Loader **C. Data Import Wizard** D. Salesforce-to-Salesforce

115. For which example task should a developer use a trigger rather than a workflow rule?
A. To set the Name field of an expense report record to Expense and the Date when it is saved
B. To send an email to a hiring manager when a candidate accepts a job offer
C. To notify an external system that a record has been modified
D. To set the primary Contact on an Account record when it is saved

116. Which feature should a developer use to update an inventory count on related Product records when the status of an Order is modified to indicate it is fulfilled?
A. Process Builder process B. Lightning component C. Visualforce page D. Workflow rule

117. A company wants to create an employee rating program that allows employees to rate each other. An employee's average rating must be displayed on the employee record. Employees must be able to create rating records, but are not allowed to create employee records.
Which two actions should a developer take to accomplish this task? (Choose two.)
A. Create a trigger on the Rating object that updates a fields on the Employee object.
B. Create a lookup relationship between the Rating and Employee object.
C. Create a roll-up summary field on the Employee and use AVG to calculate the average rating score.
D. Create a master-detail relationship between the Rating and Employee objects.

118. Which two SOSL searches will return records matching search criteria contained in any of the searchable text fields on an object? (Choose two.)
A. [FIND 'Acme*' IN ANY FIELDS RETURNING Account, Opportunity];
B. [FIND 'Acme*' RETURNING Account, Opportunity];
C. [FIND 'Acme*' IN ALL FIELDS RETURNING Account, Opportunity];
D. [FIND 'Acme*' IN TEXT FIELDS RETURNING Account, Opportunity];

119. What is the data type returned by the following SOSL search?
[FIND 'Acme*' IN NAME FIELDS RETURNING Account, Opportunity];
A. List<List<Account>, List<Opportunity>> B. Map<sObject, sObject>
C. List<List<sObject>> D. Map<Id, sObject>

120. A Platform Developer needs to implement a declarative solution that will display the most recent Closed Won date for all Opportunity records associated with an Account. Which field is required to achieve this declaratively?

A. Roll-up summary field on the Opportunity object

B. Cross-object formula field on the Opportunity object

C. Roll-up summary field on the Account object

D. Cross-object formula field on the Account object

121. Which three statements are true regarding the @isTest annotation? (Choose three.)

A. A method annotated @isTest(SeeAllData=true) in a class annotated @isTest(SeeAllData=false) has access to all org data.

B. A method annotated @isTest(SeeAllData=false) in a class annotated @isTest(SeeAllData=true) has access to all org data.

C. A class containing test methods counts toward the Apex code limit regardless of any @isTest annotation.

D. Products and Pricebooks are visible in a test even if a class is annotated @isTest(SeeAllData=false).

E. Profiles are visible in a test even if a class is annotated @isTest(SeeAllData=false).

122. For which three items can a trace flag be configured? (Choose three.)

A. Apex Trigger **B. Apex Class** C. Process Builder **D. User** E. Visualforce

123. A developer is asked to create a custom Visualforce page that will be used as a dashboard component. Which three are valid controller options for this page? (Choose three.)

A. Use a standard controller.

B. Use a standard controller with extensions.

C. Use a custom controller with extensions.

D. Do not specify a controller.

E. Use a custom controller.

124. A developer wrote a unit test to confirm that a custom exception works properly in a custom controller, but the test failed due to an exception being thrown.
Which step should the developer take to resolve the issue and properly test the exception?

A. Use try/catch within the unit test to catch the exception.

B. Use the finally bloc within the unit test to populate the exception.

C. Use the database methods with all or none set to FALSE.

D. Use Test.isRunningTest() within the custom controller.

125. Which SOQL query successfully returns the Accounts grouped by name?
A. SELECT Type, Max(CreatedDate) FROM Account GROUP BY Name
B. SELECT Name, Max(CreatedDate) FROM Account GROUP BY Name
C. SELECT Id, Type, Max(CreatedDate) FROM Account GROUP BY Name
D. SELECT Type, Name, Max(CreatedDate) FROM Account GROUP BY Name LIMIT 5

126. What are three characteristics of static methods? (Choose three.)
A. Initialized only when a class is loaded
B. A static variable outside of the scope of an Apex transaction
C. Allowed only in outer classes
D. Allowed only in inner classes
E. Excluded from the view state for a Visualforce page

127. What are two uses for External IDs? (Choose two.)
A. To create relationships between records imported from an external system.
B. To create a record in a development environment with the same Salesforce ID as in another environment
C. To identify the sObject type in Salesforce
D. To prevent an import from creating duplicate records using Upsert

***128. A developer needs to create a Visualforce page that displays Case data. The page will be used by both support reps and support managers. The Support Rep profile does not allow visibility of the Customer_Satisfaction__c field, but the Support Manager profile does.**
How can the developer create the page to enforce Field Level Security and keep future maintenance to a minimum?
A. Create one Visualforce Page for use by both profiles. B. Use a new Support Manager permission set.
C. Create a separate Visualforce Page for each profile. D. Use a custom controller that has the with sharing keywords.

129. When an Account's custom picklist field called Customer Sentiment is changed to a value of "Confused", a new related Case should automatically be created.
Which two methods should a developer use to create this case? (Choose two.)
A. Process Builder **B. Apex Trigger** C. Custom Button D. Workflow Rule

130. Which two number expressions evaluate correctly? (Choose two.)
A. Double d = 3.14159; B. Integer I = 3.14159; C. Decimal d = 3.14159; D. Long l = 3.14159;

131. How can a developer set up a debug log on a specific user?
A. It is not possible to setup debug logs for users other than yourself.
B. Ask the user for access to their account credentials, log in as the user and debug the issue.
C. Create Apex code that logs code actions into a custom object.
D. Set up a trace flag for the user, and define a logging level and time period for the trace.

132. How should a developer create a new custom exception class?

A. public class CustomException extends Exception{}

B. CustomException ex = new (CustomException)Exception();

C. public class CustomException implements Exception{}

D. (Exception)CustomException ex = new Exception();

133. A developer wants to override a button using Visualforce on an object. What is the requirement?

A. The controller or extension must have a PageReference method.

B. The standardController attribute must be set to the object.

C. The action attribute must be set to a controller method.

D. The object record must be instantiated in a controller or extension.

134. A lead object has a custom field Prior_Email__c. The following trigger is intended to copy the current Email into the Prior_Email__c field any time the Email field is changed:

```
trigger test on Lead (before update) {
     for(Lead ld: trigger.new)
     {
          if(ld.Email != trigger.oldMap.get (ld.ld).email)
          {
               ld.Prior_Email__c = trigger.old,ap.get(ld.ld).email;
               update ld;
          }
     }
}
```

Which type of exception will this trigger cause?

A. A null reference exception B. A compile time exception. **C. A DML exception**

D. A limit exception when doing a bulk update

135. A developer is asked to set a picklist field to 'Monitor' on any new Leads owned by a subnet of Users. How should the developer implement this request?

A. Create an after insert Lead trigger.

B. Create a before insert Lead trigger.

C. Create a Lead Workflow Rule Field Update.

D. Create a Lead formula field.

136. Why would a developer consider using a custom controller over a controller extension?

A. To increase the SOQL query governor limits.

B. To implement all of the logic for a page and bypass default Salesforce functionality

C. To leverage built-in functionality of a standard controller

D. To enforce user sharing settings and permissions

137. How should a developer avoid hitting the governor limits in test methods?
A. Use @TestVisible on methods that create records.
B. Use Test.loadData() to load data from a static resource.
C. Use @IsTest (SeeAllData=true) to use existing data.
D. Use Test.startTest() to reset governor limits.

138. Which three declarative fields are correctly mapped to variable types in Apex? (Choose three.)
A. Number maps to Decimal.
B. Number maps to Integer.
C. TextArea maps to List of type String.
D. Date/Time maps to Dateline.
E. Checkbox maps to Boolean.

139. Which three tools can deploy metadata to production? (Choose three.)
A. Change Set from Developer Org **B. Force.com IDE** C. Data Loader
D. Change Set from Sandbox **E. Metadata API**

140. A developer needs to display all of the available fields for an object.
In which two ways can the developer retrieve the available fields if the variable myObject represents the name of the object? (Choose two.)
A. Use myObject.sObjectType.getDescribe().fieldSet() to return a set of fields.
B. Use mySObject.myObject.fields.getMap() to return a map of fields.
C. Use Schema.describeSObjects(new String[]{myObject})[0].fields.getMap() to return a map of fields.
D. Use getGlobalDescribe().get(myObject).getDescribe().fields.getMap() to return a map of fields.

141. A developer executes the following query in Apex to retrieve a list of contacts for each account:
List<account> accounts = [Select ID, Name, (Select ID, Name from Contacts) from Account] ;
Which two exceptions may occur when it executes? (Choose two.)
A. CPU limit exception due to the complexity of the query.
B. SOQL query row limit exception due to the number of contacts.
C. SOQL query limit exception due to the number of contacts.
D. SOQL query row limit exception due to the number of accounts.

142. What is the result of the debug statements in testMethod3 when you create test data using testSetup in below code?

```
@isTest
private class CreateAndExecuteTest{

     @testSetup
     static void setup() {
      // Create 2 test accounts
      List<Account> testAccts = new List<Account>();
      for(Integer i=0;i<2;i++) {
          testAccts.add(new Account(Name = 'MyTestAccount'+i, Phone='333-878'));
      }
      insert testAccts;
     }

     @isTest static void testMethod1() {
      Account acc = [SELECT Id,Phone FROM Account WHERE Name='MyTestAccount0' LIMIT 1];
      acc.Phone = '888-1515';
      update acc;

      Account acc2 = [SELECT Id,Phone FROM Account WHERE Name='MyTestAccount1' LIMIT 1];
      acc.Phone = '999-1515';
      update acc2;
     }

     @isTest static void testMethod2() {
      Account acc = [SELECT Id,Phone FROM Account WHERE Name='MyTestAccount1' LIMIT 1];
      acc.Phone = '888-2525';
      update acc;
     }


     @isTest static void testMethod3() {
      Account acc0 = [SELECT Id,Phone FROM Account WHERE Name='MyTestAccount0' LIMIT 1];
      Account acc1 = [SELECT Id,Phone FROM Account WHERE Name='MyTestAccount1' LIMIT 1];

     System.debug('Account0.Phone='+ acc0.Phone +', Account1.Phone='acc1.Phone);
     }
```

A. Account0.Phone=333-8781, Account1.Phone=333-8780 B. Account0.Phone=888-1515, Account1.Phone=999-2525

C. Account0.Phone=333-8780, Account1.Phone=333-8781 D. Account0.Phone=888-1515, Account1.Phone=999-1515

143. Which three options allow a developer to use custom styling in a Visualforce page? (Choose three.)

A. <apex:stylesheet> tag **B. Inline CSS** C. <apex:style>tag

D. <apex:stylesheets>tag **E. A static resource**

144. Which two strategies should a developer use to avoid hitting governor limits when developing in a multi-tenant environment? (Choose two.)

A. Use collections to store all fields from a related object and not just minimally required fields.

B. Use methods from the "Limits" class to monitor governor limits.

C. Use SOQL for loops to iterate data retrieved from queries that return a high number of rows.

D. Use variables within Apex classes to store large amounts of data.

145. Which set of roll-up types are available when creating a roll-up summary field?

A. COUNT, SUM, MIN, MAX

B. AVERAGE, SUM, MIN, MAX

C. SUM, MIN, MAX

D. AVRAGE, COUNT, SUM, MIN, MAX

146. What is a benefit of using an after insert trigger over using a before insert trigger?

A. An after insert trigger allows a developer to bypass validation rules when updating fields on the new record.

B. An after insert trigger allows a developer to insert other objects that reference the new record.

C. An after insert trigger allows a developer to make a callout to an external service.

D. An after insert trigger allows a developer to modify fields in the new record without a query.

147. The operation manager at a construction company uses a custom object called Machinery to manage the usage and maintenance of its cranes and other machinery. The manager wants to be able to assign machinery to different constructions jobs, and track the dates and costs associated with each job. More than one piece of machinery can be assigned to one construction job.
What should a developer do to meet these requirements?

A. Create a lookup field on the Construction Job object to the Machinery object.

B. Create a lookup field on the Machinery object to the Construction Job object.

C. Create a junction object with Master-Detail Relationship to both the Machinery object and the Construction Job object.

D. Create a Master-Detail Lookup on the Machinery object to the Construction Job object.

148. Which tool allows a developer to send requests to the Salesforce REST APIs and view the responses?

A. REST resource path URL

B. Workbench REST Explorer

C. Developer Console REST tab

D. Force.com IDE REST Explorer tab

149. A developer created a Visualforce page and a custom controller with methods to handle different buttons and events that can occur on the page.
What should the developer do to deploy to production?

A. Create a test class that provides coverage of the Visualforce page.

B. Create a test page that provides coverage of the Visualforce page.

C. Create a test page that provides coverage of the custom controller.

D. Create a test class that provides coverage of the custom controller.

150. Which approach should a developer use to add pagination to a Visualforce page?

A. A StandardController
B. The Action attribute for a page
C. The extensions attribute for a page
D. A StandardSetController

***151. A developer needs to join data received from an integration with an external system with parent records in Salesforce. The data set does not contain the Salesforce IDs of the parent records, but it does have a foreign key attribute that can be used to identify the parent.**
Which action will allow the developer to relate records in the data model without knowing the Salesforce ID?

A. Create and populate a custom field on the parent object marked as Unique.
B. Create a custom field on the child object of type External Relationship.
C. Create and populate a custom field on the parent object marked as an External ID.
***D. Create a custom field on the child object of type Foreign Key.**

152. A developer created a Lightning component to display a short text summary for an object and wants to use it with multiple Apex classes. How should the developer design the Apex classes?

A. Have each class define method getObject() that returns the sObject that is controlled by the Apex class.
B. Extend each class from the same base class that has a method getTextSummary() that returns the summary.
C. Have each class implement an interface that defines method getTextSummary() that returns the summary.
D. Have each class define method getTextSummary() that returns the summary.

153. When is an Apex Trigger required instead of a Process Builder Process?

A. When a record needs to be created
B. When multiple records related to the triggering record need to be updated
C. When a post to Chatter needs to be created
D. When an action needs to be taken on a delete or undelete, or before a DML operation is executed.

***154. A platform developer at Universal Containers needs to create a custom button for the Account object that, when clicked, will perform a series of calculations and redirect the user to a custom Visualforce page. Which three attributes need to be defined with values in the <apex:page> tag to accomplish this? (Choose three.)**

A. action B. renderAs **C. standardController** D. readOnly **E. extensions**

155. Using the Schema Builder, a developer tries to change the API name of a field that is referenced in an Apex test class. What is the end result?

A. The API name is not changed and there are no other impacts.
B. The API name of the field and the reference in the test class is changed.
C. The API name of the field is changed, and a warning is issued to update the class.
D. The API name of the field and the reference in the test class is updated.

156. How should a developer make sure that a child record on a custom object, with a lookup to the Account object, has the same sharing access as its associated account?

A. Create a Sharing Rule comparing the custom object owner to the account owner.
B. Create a validation rule on the custom object comparing the record owners on both records.
C. Include the sharing related list on the custom object page layout.
D. Ensure that the relationship between the objects is Master-Detail.

157. An org has a single account named 'NoContacts' that has no related contacts. Given the query: List<Account> accounts = [Select ID, (Select ID, Name from Contacts) from Account where Name='NoContacts']; What is the result of running this Apex?

A. accounts[0].contacts is invalid Apex.
B. accounts[0].contacts is an empty Apex.
C. accounts[0].contacts is Null.
D. A QueryException is thrown.

158. Given:
Map<ID, Account> accountMap = new Map>ID, Account> ([SELECT Id, Name FROM Account]);
What are three valid Apex loop structures for iterating through items in the collection? (Choose three.)

A. for (ID accountID : accountMap.keySet()) {…}
B. for (Account accountRecord : accountMap.values()) {…}
C. for (Integer i=0; I < accountMap.size(); i++) {…}
D. for (ID accountID : accountMap) {…}
E. for (Account accountRecord : accountMap.keySet()) {…}

159. Universal Containers wants Opportunities to be locked from editing when reaching the Closed/Won stage. Which two strategies can a developer use to accomplish this? (Choose two.)

A. Use a Visual Workflow.
B. Use a validation rule
C. Use the Process Automation Settings.
D. Use a Trigger.

160. A developer writes the following code:

```
List<Account> acc = [SELECT Id FROM Account LIMIT 10];
Delete acc;
Database.emptyRecycleBin(acc);

System.Debug(Limits.getDMLStatements() +', '+ Limits.getLimitDMLStatements());
```

What is the result of the debug statement?

A. 1, 100 B. 1, 150 **C. 2, 150** D. 2, 200

161. What are two valid options for iterating through each Account in the collection List<Account> named AccountList? (Choose two.)

A. for (Account theAccount : AccountList) {…}

B. for(AccountList) {…}

C. for (List L : AccountList) {…}

D. for (Integer i=0; i < AccountList.Size(); i++) {…}

162. A developer has the controller class below.

```
public with sharing class myFooController {
     public integer prop { get; private set;}
}
```

Which code block will run successfully in an execute anonymous window?

A. myFooController m = new myFooController(); System.assert(m.prop !=null);

B. myFooController m = new myFooController(); System.assert(m.prop ==0);

C. myFooController m = new myFooController(); System.assert(m.prop ==null);

D. myFooController m = new myFooController(); System.assert(m.prop ==1);

163. In a single record, a user selects multiple values from a multi-select picklist. How are the selected values represented in Apex?

A. As a List<String> with each value as an element in the list

B. As a String with each value separated by a comma

C. As a String with each value separated by a semicolon

D. As a Set<String> with each value as an element in the set

164. What is a capability of the <ltng:require> tag that is used for loading external Javascript libraries in Lightning Component? (Choose three.)

A. Loading files from Documents.

B. One-time loading for duplicate scripts.

C. Specifying loading order.

D. Loading scripts in parallel.

E. Loading externally hosted scripts.

165. A Platform Developer needs to write an Apex method that will only perform an action if a record is assigned to a specific Record Type. Which two options allow the developer to dynamically determine the ID of the required Record Type by its name? (Choose two.)

A. Make an outbound web services call to the SOAP API.

B. Hardcode the ID as a constant in an Apex class.

C. Use the getRecordTypeInfosByName() method in the DescribeSObjectResult class.

D. Execute a SOQL query on the RecordType object.

166. How should a developer prevent a recursive trigger?
A. Use a "one trigger per object" pattern.
B. Use a static Boolean variable.
C. Use a trigger handler.
D. Use a private Boolean variable.

167. Which three options can be accomplished with formula fields? (Choose three.)
A. Generate a link using the HYPERLINK function to a specific record.
B. Display the previous value for a field using the PRIORVALUE function.
C. Determine if a datetime field value has passed using the NOW function.
D. Return and display a field value from another object using the VLOOKUP function.
E. Determine which of three different images to display using the IF function.

168. A Visualforce page is required for displaying and editing Case records that includes both standard and custom functionality defined in an Apex class called myControllerExtension.
The Visualforce page should include which <apex:page> attribute(s) to correctly implement controller functionality?
A. controller="Case" and extensions="myControllerExtension"
B. extensions="myControllerExtension"
C. controller="myControllerExtension"
D. standardController="Case" and extensions="myControllerExtension"

169. A newly hired developer discovers that there are multiple triggers on the case object.
What should the developer consider when working with triggers?
A. Developers must dictate the order of trigger execution.
B. Trigger execution order is based on creation date and time.
C. Unit tests must specify the trigger being tested.
D. Trigger execution order is not guaranteed for the same sObject.

170. Which two statements are true about using the @testSetup annotation in an Apex test class? (Choose two.)
A. The @testSetup annotation cannot be used when the @isTest(SeeAllData=True) annotation is used.
B. Test data is inserted once for all test methods in a class.
C. Records created in the @testSetup method cannot be updates in individual test methods.
D. The @testSetup method is automatically executed before each test method in the test class is executed.

171. What is the requirement for a class to be used as a custom Visualforce controller?
A. Any top-level Apex class that has a constructor that returns a PageReference
B. Any top-level Apex class that extends a PageReference
C. Any top-level Apex class that has a default, no-argument constructor
D. Any top-level Apex class that implements the controller interface

172. Which approach should be used to provide test data for a test class?
A. Query for existing records in the database.
B. Execute anonymous code blocks that create data.
C. Use a test data factory class to create test data.
D. Access data in @TestVisible class variables.

173. Which approach should a developer take to automatically add a "Maintenance Plan" to each Opportunity that includes an "Annual Subscription" when an opportunity is closed?
A. Build a OpportunityLineItem trigger that adds a PriceBookEntry record.
B. Build an OpportunityLineItem trigger to add an OpportunityLineItem record.
C. Build an Opportunity trigger that adds a PriceBookEntry record.
D. Build an Opportunity trigger that adds an OpportunityLineItem record.

174. A developer working on a time management application wants to make total hours for each timecard available to application users. A timecard entry has a Master-Detail relationship to a timecard. Which approach should the developer use to accomplish this declaratively?
A. A Visualforce page that calculates the total number of hours for a timecard and displays it on the page
B. A Roll-Up Summary field on the Timecard Object that calculates the total hours from timecard entries for that timecard
C. A Process Builder process that updates a field on the timecard when a timecard entry is created
D. An Apex trigger that uses an Aggregate Query to calculate the hours for a given timecard and stores it in a custom field

175. A developer encounters APEX heap limit errors in a trigger.
Which two methods should the developer use to avoid this error? (Choose two.)
A. Use the transient keyword when declaring variables.
B. Query and store fields from the related object in a collection when updating related objects.
C. Remove or set collections to null after use.
D. Use SOQL for loops instead of assigning large queries results to a single collection and looping through the collection.

176. A developer needs to test an Invoicing system integration. After reviewing the number of transactions required for the test, the developer estimates that the test data will total about 2 GB of data storage. Production data is not required for the integration testing.
Which two environments meet the requirements for testing? (Choose two.)
A. Developer Sandbox. **B. Full Sandbox.** C. Developer Edition
D. Partial Sandbox. E. Developer Pro Sandbox

177. Where can a developer identify the time taken by each process in a transaction using Developer Console log inspector?
A. Performance Tree tab under Stack Tree panel B. Execution Tree tab under Stack Tree panel
C. Timeline tab under Execution Overview panel D. Save Order tab under Execution Overview panel

178. Which two platform features align to the Controller portion of MVC architecture? (Choose two.)
A. Process Builder actions **B. Workflow rules** C. Standard objects D. Date fields

179. While writing a test class that covers an OpportunityLineItem trigger, a Developer is unable to create a standard PriceBook since one already exists in the org.
How should the Developer overcome this problem?
A. Use Test.getStandardPricebookId() to get the standard PriceBook ID.
B. Use @IsTest(SeeAllData=true) and delete the existing standard PriceBook.
C. Use Test.loadData() and a Static Resource to load a standard Pricebook.
D. Use @TestVisible to allow the test method to see the standard PriceBook.

180. Which two Apex data types can be used to reference a Salesforce record ID dynamically? (Choose two.)
A. ENUM **B. sObject** C. External ID **D. String**

181. What should a developer use to implement an automatic Approval Process submission for Cases?
A. An Assignment Rule B. Scheduled Apex **C. Process Builder** D. A Workflow Rule

182. When viewing a Quote, the sales representative wants to easily see how many discounted items are included in the Quote Line Items. What should a developer do to meet this requirement?
A. Create a trigger on the Quote object that queries the Quantity field on discounted Quote Line Items.
B. Create a Workflow Rule on the Quote Line Item object that updates a field on the parent Quote when the item is discounted.
C. Create a roll-up summary field on the Quote object that performs a SUM on the quote Line Item Quantity field, filtered for only discounted Quote Line Items.
D. Create a formula field on the Quote object that performs a SUM on the Quote Line Item Quantity field, filtered for only discounted Quote Line Items.

183. What are two benefits of the Lightning Component framework? (Choose two.)
A. It simplifies complexity when building pages, but not applications.
B. It provides an event-driven architecture for better decoupling between components.
C. It promotes faster development using out-of-box components that are suitable for desktop and mobile devices.
D. It allows faster PDF generation with Lightning components.

184. A method is passed a list of generic sObjects as a parameter.
What should the developer do to determine which object type (Account, Lead, or Contact, for example) to cast each sObject?
A. Use the first three characters of the sObject ID to determine the sObject type.
B. Use the getSObjectType method on each generic sObject to retrieve the sObject token.
C. Use the getSObjectName method on the sObject class to get the sObject name.
D. Use a try-catch construct to cast the sObject into one of the three sObject types.

185. Which statement results in an Apex compiler error?

A. Map<Id,Leas> lmap = new Map<Id,Lead>([Select ID from Lead Limit 8]);

B. Date d1 = Date.Today(), d2 = Date.ValueOf('2018-01-01');

C. Integer a=5, b=6, c, d = 7;

D. List<string> s = List<string>{'a','b','c');

186. What is the result of the following code snippet?

```
Public void dowork(Account acct){
    For (Integer  i=0; i<=200; i++){
    Insert acct;
    }
}
```

A. 200 Accounts are inserted.

B. 201 Accounts are inserted.

C. 0 Accounts are inserted.

D. 1 Accounts is inserted.

187. A developer has a single custom controller class that works with a Visulaforce Wizard to support creating and editing multiple sObjects. The wizard accepts data from user inputs across multiple Visulaforce pages and from a parameter on the initial URL.

What three statements are useful inside the unit test to effectively test the custom controller?

A. public ExtendedController(ApexPages.StandardContraoller cntrl){}

B. ApexPages.currentPage().getParameters().put('input','TextValue');

C. Test.setCurrentPage(pageRef);

D. insert pageRef;

E. String nextPage = controller.save().getUrl();

188. Which two operations can be performed using a formula field?

A. Displaying the last four digits of an encrypted Social Security number.

B. Triggering a Process Builder.

C. Displaying an image based on the opportunity Amount

D. Calculating a score on a Lead based on the info from another field.

189. A developer created a Visualforce page and custom controller to display the account type field as shown below.

Custom controller code:

```
Public with sharing class customCtrlr{
Private Account theAccount;
Public String actType;
Public customCtrlr(){
theAccount = [SELECT Id, Type FROM Account
WHERE Id = :ApexPages.currentpage{}.getParameters{}.get('id')];
actType = theAccount.Type;
}
}
```

Visualforce page snippet:

```
The Account Type is {!actType}
```

The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is properly referenced on the Visualforce page, What should the developer do to correct the problem?

A. Add with sharing to the custom controller.

B. Add a getter method for the actType attribute.

C. Change the Account attribute to public.

D. Convert the Account Type to a String.

190. An Apex method, getAccounts, that returns a List of Accounts given a search Term, is available for Lightning Web components to use. What is the correct definition of a Lightning Web component property that uses the getAccounts method?

A. @wire(getAccounts, { searchTerm: '$searchTerm' })

accountList;

B. @wire(getAccounts, ‘$searchTerm’)

accountList;

C. @AuraEnabled(getAccounts, ‘$searchTerm’)

accountList;

D. @AuraEnabled(getAccounts, (searchTerm: '$searchTerm'))

accountList;

191. Which process automation should be used to send an outbound message without using Apex code?

A. Process Builder. B. Strategy Builder. **C. Workflow Rule.** D. Flow Builder.

192. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?

A. String.ValueOf(ApexPages.currentPage().getParametters().get('url_param'))

B. ApexPages.currentPage().getParameters().get('url_param').escapeHtml()

C. ApexPages.currentPage().getParameters().get('url_param')

D. String.escapeSingleQuotes(ApexPages.currentPage().getParameters().get('url_param'))

193. A developer wants to invoke an outbound message when a record meets a specific criteria. Which three features satisfy this use case? Choose 3 answers

A. Approval Process has the capability to check the record criteria and send an outbound message without Apex code.

B. Process Builder can be used to check the record criteria and send an outbound message without Apex Code.

C. Process builder can be used to check the record criteria and then call Apex code

D. Flow Builder can be used to check the record criteria and send an outbound message without additional code.

E. Workflows can be used to check the record criteria and send an outbound message

194. A developer at UC is tasked with implementing a new Salesforce application that will be maintained completely by their company's Salesforce administrator. Which three options should be considered for building out the business logic layer of the application?

A. Validation Rule B. Flow Builder C. Process Builder D. Invocable Actions E. Scheduled Jobs

195. Given the following trigger Implementation:

```
trigger leadTrigger on Lead (before update0{
final ID BUSINESS_RECORDTYPEID = '012500000009Qad';
for(Lead thisLead : Trigger.new}{
if(thisLead.Company !=null && thisLead.RecordTypeId 1=BUSINESS_RECORDTYPE){
thisLead.RecordTypeId = BUSINESS_RECORDTYPE;
} } }
```

The developer receives deployment errors every time a deployment is attempted from Sandbox to Production. What should the developer do to ensure a successful deployment?

A. Ensure a record type with an ID of BUSINESS_RECORDTYPEID exists on Production prior to deployment.

B. Ensure BUSINESS_RECORDTYPEID is retrieved using Schema.Describe calls.

C. Ensure the deployment is validated by a System Admin user on Production.

D. Ensure BUSINESS_RECORDTYPEID is pushed as part of deployment components.

196. What is the result of the following code?

```
Account a = new Account();
Database.insert(a , false);
```

A. The record will not be created and an exception will be thrown.

B. The record will be created and no error will be reported.

C. The record will be created and a message will be in the debug log.

D. The record will not be created and no error will be reported.

197. What should be used to create scratch orgs?

A. Developer Console **B. Salesforce CLI** C. Workbench D. Sandbox refresh

198. A development team wants to use a development script to automatically deploy to a sandbox during their development cycles. Which two tools can they use to run a script that deploys to a sandbox? Choose 2 answers

A. Developer Console **B.SFDX CLI** **C. VSCode / Ant Migration Tool** D. Change Sets

199. When a user edits the Postal Code on an Account, a custom account text field named "Timezone" must be updated based on the values in a PostalCodeToTimeZone_c custom object. How can a developer implement this feature?

A. Build an Account Assignment Rule. B. Build an Account Workflow Rule.

C. Build an Account Approval Process. **D. Build an Account custom Trigger. / Build a Flow with Flow Builder.**

200. An Approval Process is defined in the Expense_Item_c object. A business rule dictates that whenever a user changes the Status to 'Submitted' on an Expense_Report_c, all the Expense_Item_c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?

A. Create two Process Builders, one on Expense_Report__c to amrk the related Expense_Item__c as submittable and the second on Expense_Item__c to submit the record for approval.

B. Create a Process Builder on Expense_Report_c with a 'Submit for Approval' action type to submit all related Expense_Item_c records when the criteria is met.

C. Create a Process Builder on Expense_Report__c to amrk the related Expense_Report__c as submittable and a trigger on Expense_item__c to submit the record for approval.

D. Create a Process Builder on Expense_Report__c with an 'Apex' action type to submit all related Expense_Item__c record when the criteria is met.

201. Which three Salesforce resources can be accessed from a Lightning web component?

A. Content asset files **B. Static resources** C. All external libraries

D. Third-party web components **E. SVG resourses**

202. What is an example of a polymorphic lookup field in Salesforce?

A. The ParentId field on the standard Account object.

B. A custom field, Link__c, on the standard Contact object that looks up to an Account or a Campaign.

C. The WhatId field on the standard Event object.

D. The LeadId and ContactId fields on the standard Campaign Member object.

203. What are three characteristics of change set deployments? Choose 3 answers

A. Deployment is done in a one way, single transaction

B. Change sets can only be used between related organizations.

C. Change sets can deploy custom settings data.

D. Change sets can be used to transfer records.

E. Sending a change set between two orgs requires a deployment connection.

204. Which code in a Visualforce page and/or controller might present a security vulnerability?

A. <apex:outputField value="{!ctrl.userInput}"/>

B. <apex:outText value="{!$CurrentPage.parameters.userInput}"/>

C. <apex:outputText escape="false" value="{!&CurrentPage.parameter.usersInput}"/>

D. <apex:outputField escape=false" value="{!ctrl.userInput}"/>

205. Which three code lines are required to create a Lightning component on a Visualforce page?

A. $Lightning.use B. $Lightning.useComponent **C. <apex:includeLightning/>**

D. <apex:slds/> **E. $Lightning.createComponent**

206. Which statement describes the execution order when triggers are associated to the same object and event?

A. Triggers execution order cannot be guaranteed.

B. Triggers are executed alphabetically by trigger name.

C. Triggers are executed in the order they are created.

D. Triggers are executed in the order they are modified.

207. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?

A. Approval Process **B. Flow Builder** C. Process Builder D. Lightning Component

208. How can a developer check the test coverage of active Process Builder and flows before deploying them in a Change set?

A. Use the Flow Properties page. **B. Use the code coverage setup page**

C. Use the ApexTestResult class. D. Use SOQL and the Tooling API

209. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

A. AppExchange B. Visual Studio Code IDE. **C. Developer console** D. Setup Menu

210. Which exception type cannot be caught?

A. NoAccessException B. CalloutExeption **C. LimitException** D. A Custom Exception

211. Which Apex class contains methods to return the amount of resources that have been used for a particular governor, such as the number of DML statements?

A. Messaging B. OrgLimits **C. Limits** D. Exception

212. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

A. Override the account's edit button with a lightning component.

B. Override the account's edit button with a Lightning action.

C. Override the account's edit button with a Lightning page.

D. Override the account's edit button with a lightning flow.

213. Instead of sending emails to support personnel directly from Salesforce, UC wants to notify an external system to the event that an unhandled exception occurs. What is the appropriate publish/subscribe logic to meet this requirement?

A. Publish the error event using the Eventbus.publish() method and have the external system subscribe to the event using CometD.

B. Publish the error event using the addError() method and write a trigger to subscribe to the event and notify the external system.

C. Have the external system subscribe to the BatchApexError event, no publishing is necessary.

D. Publish the error event using the addError() method and have the external system subscribe to the event using CometD.

***214. Refer to the following code that runs in an execute anonymous block:**

```
for(List<Lead>  theseLeads : [SELECT LastName, Company, Email FROM Lead LIMIT 2000]){
        for(Lead this Lead :  theseLeads){
        if(thisLead.Email == null)
        thisLead.Email = assignGenericEmail(thisLead.LastName, thisLead.Company);
        }
        Database.Update(theseLeads,false);
}
```

In an environment where the full result set is returned,what is a possible outcome of this code?

A. The transaction will succeed and the first ten thousand recods will be committed to the DB.

B. The transaction will succeed and the full result set changes will be committed to the DB.

C. The total no of records processed as a result of DML Statements will be exceeded.

D. The total number of DML statements issued will be exceeded.

215. How does the lightning component framework help developers implement solutions faster?

A. By providing code review standards and processes.

B. By providing change history and version control

C. By providing an agile process with default steps

D. By providing device- awareness for mobile and desktops.

216. Which two statements are true about Getter and Setter methods as they relate to Visualforce?

A. Setter methods always have to be declared global.

B. There is no guarantee for order in which Getter or Setter methods are executed.

C. Setter methods are required to pass a value from a page to a controller.

D. Getter methods can pass a value from a controller to a page.

217. An org has an existing Visual flow that creates an opportunity with an update records element. A developer must update the Visual Flow to also create a Contact and store the created Contact's ID on the Opportunity.

A. Add a new quick action (of type create) element.

B. Add a new create records element.

C. Add a new get records element.

D. Add a new update records element.

218. The values 'HIGH','MEDIUM' AND' LOW' are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?

A. Create the picklist on each object and use a Global Picklist Value Set containing the values.

B. Create the picklist on each object as a required field and select “Display values alphabetically, not in the order entered”.

C. Create the picklist on each object and add a validation rule to ensure data integrity.

D. Create the picklist on each object and select “Restrict picklist to the values defined in the value set”.

219. Which three web technologies can be integrated into a Visualforce page? Choose 3 answers.

A. CSS **B. JavaScript** C. Java. **D. HTML**. E. PHP

220. What are two ways that a controller and extension can be specified on a Visualforce page?

A. apex:page standardController="Account" extensions="myControllerExtension"

B. apex:page=Account extends=”myControllerExtension”

C. apex:page controllers=”Account, myControllerExtension”

D. apex:page controller="Account" extensions="myControllerExtension"

***221. While writing an Apex class that creates Accounts, a developer wants to make sure that all required fields are handled properly. Which approach should the developer use to sure that the Apex class works correctly?**

A. Add the business logic to a test class.

B. Include a try/catch block to the Apex class.

C. Perform a code review with another developer.

D. Run the code in an Execute Anonymous block

222. UC wants to back up all the data and attachements in its Salesforce org once a month.

Which approach should a developer use to meet this requirement?

A. Use the Data Loader command line. B. Schedule a report.

C. Create a Schedulable Apex class. **D. Define a Data Export scheduled job.**

223. A developer is creating a page that allows users to create multiple opportunities. The developer is asked to verify the current user's default Opportunity record type, and set certain default value based on the record type before inserting the record. How can the developer find the current user's default record type?

A. Query the profile where the ID equals to userInfo.getProfileID() and then use the Profile.Opportunity.getDefaultRecordType() method.

B. Create the opportunity and check the opportunity.recordType before inserting, which will have the record ID of the the current user's default.

C. Use the Schema.userInfo.Opportunity.getDefaultRecordType() method.

D. Use Opportunity.SOjectType.getDescribe().getRecordTypeInfos() to get a list of record types, and iterate through them unitl isDefaultRecordTypeMappin() is True.

224. A developer needs to prevent the creation of Request_c records when certain conditions exist in the system. A RequestLogic Class exists that checks the conditions, What is the correct implementation?

A. trigger RequestTrigger on Request_c(before insert){

RequestLogic.validateRecords(trigger.new); }

B. trigger RequestTrigger on Request_c(before insert){

If(RequestLogic.isValid(Request__c))

Request.addError('Your request cannot be created at this time.');}

C. trigger RequestTrigger on Request_c(after insert){

If(RequestLogic.isValid(Request__c))

Request.addError('Your request cannot be created at this time.');}

D. trigger RequestTrigger on Request_c(after insert){

RequestLogic.validateRecords{trigger.new};}

225. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface.

```
public interface PaymentProcessor{
void pay(Decimal amount);
}
```

Which is the correct implementation to use the PaymentProcessor interface class?

A.
```
public class CheckPaymentProcessor extends  PaymentProcessor{
public  void  pay (Decimal amount) {}
}
```

B.
```
public class CheckPaymentProcessor extends  PaymentProcessor{
public  void  pay (Decimal amount) ;
}
```

C.
```
public class CheckPaymentProcessor implements PaymentProcessor{
public  void  pay (Decimal amount) ;
}
```

D.
```
public class CheckPaymentProcessor implements PaymentProcessor{
public  void  pay (Decimal amount) {}
}
```

226. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change Set development to production faild with the test coverage warning: "Test coverage of selected Apex Trigger is 0%,at least 1% test coverage is required." What should the developer do to successfully deploy the new Apex trigger and helper class?

A. Remove the failing test methods from the test class.

B. Run the tests using the Run All Tests method.

C. Increase the test class coverage on the helper class

D. Create a test class and methods to cover the Apex trigger.

227. Which two characteristics are true for Aura component events?

A. Calling event.stopPropagation() may or may not stop the event propagation based of the current propagation phase.

B. If a container component needs to handle a component event, add a handleFacets="true" attribute to its handler.

C. Only parent components that create subcomponents (either in their markup or proprammatically) can handle events.

D. The event propagates to every owner in the containment hierarchy.

228. What can be developed using the Lightning Component Framework?

A. Hosted Web Applications. **B. Single-page Web Apps.**

C. Dynamic Web Sites. D. Salesforce Integration

229. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated. How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?

A. 1 B. 8 **C. 2** D. 4

230. A PrimaryId__c custom field exists on the Candidate__ custom object. The field is used to store each candidate's id number and is marked as Unique in the schema definition. As part of data enrichment process, Universal Containers has a CSV file that contains updated data for all candidates in the system. The file contains each Candidate's primary id as a data point. Universal Containers wants to upload this information into Salesforce, while ensuring all data rows are correctly mapped to a candidate in the system. Which technique should the developer implement to streamline the data upload?

A. Create a Process Builder on the Candidate__c object to map the records.

B. Create a before insert trigger to correctly map the records.

C. Update the PrimaryId__c field definition to mark it as an External Id.

D. Upload the CSV into a custom object related to Candidate__c.

231. UC hires a developer to build a custom search page to help users find the accounts they want. Users will be able to search on Name, Description, and a custom comments field. Which consideration should the developer be aware of when deciding between SOQL and SOSL? Choose 2 answers

A.SOSL is able to return more records.

B.SOQL is faster for text searches.

C. SOSL is faster for text searches.

D.SOQL is able to return more records.

232. A developer wrote Apex code that calls to an external system. How should a developer write the test to provide test coverage?

A. Write a class that extends HTTPCallout Mock.

B. Write a class that implements the HTTPCallout Mock interface.

C. Write a class that implements Webservice Mock.

D. Write a class that extends WebserviceMock.

233. Which two statements accurately represent the MVC framework implementation in Salesforce? Choose 2 answers.

A. Validation rules enforce business rules and represent the Controller part of the MVC framework.

B. Lightning component HTML files represent the MODE part of the MVC framework.

C. Triggers that create records represent the MODEL Part of the MVC Framework.

D. Standard and Custom objects used in the app schema represent the View part of the MVC framework.

234. Which two are phases in the Salesforce Application Event propagation framework?

A. Default B. Emit C. Control **D. Bubble**

***235. Given the following Anonymous Block:**

```
List<Case> casesToUpdate - new List<Case>();
    for(Case thisCase : [Select Id, Status FROM Case LIMIT 50000]}{
    casesToUpdate.as(thiscase);
    }
try{
    Database.update(casesToUpdate,false);
    }catch (Exception e){
System.debug(e.getMessage());
}
```

What should a developer consider for an environment that has over 10,000 case records?

A. the try/catch block will handle any DML exceptions thrown.

***B. the transaction will succeed and changes will be committed.**

C. the transaction will fail due to exceeding the governor limit

D. the try/catch block will handle exceptions thrown by governor limits.

236. The sales management team at Universal Containers requires that the Lead Source field of the Lead record be populated when a Lead is converted. What should be used to ensure that a user populates the Lead Source field prior to converting a Lead?

A. Formula Field. B. Process Builder. C. Workflow Rule. **D. Validation Rule.**

237. What is the value of the trigger.old context variable in a Before Insert Trigger?

A. null B. An empty list of sObjects. C. A list of newly created sObjects without ID's D. Undefined

238. A developer needs to confirm that a Contact trigger works correctly without changing the organization's data. What should the developer do to test the Contact trigger?

A. Use the OPEN Execute Anonymous feature on the Developer console to run as 'insert contact 'DML statement.

B. Use Deploy from the VSCode IDE to deploy an 'insert Contact apex class.

C. Use the NEW button on the Salesforce contacts Tab to create a new contact record.

D. Use the Test menu on the Developer console to run all test classes for the Contact trigger.

239. A custom object Trainer_c has a lookup field to another custom object Gym_c. Which SOQL query will get the record for the Viridian City gym and all it's trainers?

A. SELECT Id, (SELECT Id FROM Trainer_c) FROM Gym_c WHERE Name ='Viridian City Gym'

B. SELECT Id, (SELECT Id FROM Trainers_r) FROM Gym_c WHERE Name ='Viridian City Gym'

C. SELECT Id, (SELECT Id FROM Trainers_c) FROM Gym_c WHERE Name = 'Viridian City Gym'

D. SELECT Id FROM Trainer_c WHERE Gym_r.Name = 'Viridian City Gym'

240. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger.

Which method allows access to the price book?

A. Use Test.loadData() and a static resource to load a standard price book.

B. Use @TestVisible to allow the test method to see the standard price book.

C. Use Test.getStandardPricebookId() to get the standard price book ID.

D. Use @IsTest (SeeAllData=true) and delete the existing standard price book

241. What should a developer do to check the code coverage of a class after running all tests?

A. View the code coverage column in the list view on the Apex Classes page.

B. View the overall Code Coverage panel of the Tests tab in the Developer Console.

C. View the Class Test Coverage tab on the Apex Class record.

D. Select and run the class on the Apex Test Execution page.

242. Which statement generates a list of Leads and contacts that have a field with the phrase 'ACME'?

A. List <sObject> searchList = [FIND"'ACME"' IN ALL FIELDS RETURNING Contact,Lead];

B. Map <sObject> searchList = [FIND"'ACME"' IN ALL FIELDS RETURNING Contact, Lead];

C. List<List<sObjects>>searchList = [FIND "'ACME'" IN ALL FIELDS RETURNING Contact, Lead];

D. List<List <sObject>> searchList = [SELECT Name, ID FROM Contact, Lead WHERE Name like '%ACME%'];

243. What are three considerations when using the @InvocableMethod annotation in Apex?

A. A method using the @InvocableMethod annotation can be declared as Public or Global.

B. A method using the @InvocableMethod annotation must be declared as static.

C. Only one method using the @InvocableMethod annotation can be defined per Apex class.

D. A method using the @InvocableMethod annotation can have multiple input parameters.

E. A method using the @InvocableMethod annotation must define a return value.

244. Which Lightning code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?

A)

```
<aura:application access="GLOBAL" extends="ltng:outApp">
    <aura:dependency resource="c:accountList"/>
</aura:application>
```

B)

```
<aura:component access="GLOBAL" extends="ltng:outApp">
    <aura:dependency resource="c:accountList"/>
</aura:component>
```

C)

```
<aura:component access="GLOBAL">
    <aura:dependency resource="c:accountList"/>
</aura:component>
```

D)

```
<aura:application access="GLOBAL">
    <aura:dependency resource="c:accountList"/>
</aura:application>
```

245. Refer to the following code snippet for an environment has more than 200 Accounts belonging to the "Technology" Industry:

```
For (Account  thisAccount : [SELECT Id, Industry FROM Account LIMIT 150]){
if(thisAccount.Insdustry == "Technology" ){
        thisAccount.Is_Tech__c = true;
}
Update thisAccount;
}
```

When the code executes, which two events occur as a result of the Apex transaction? Choose 2 answers

A. If executed in an asynchronous context, the apex transaction is likely to fail by exceeding the DML governor limit.

B. The Apex transaction succeeds regardless of any uncaught exception and all processed accounts are updated.

C. The Apex transaction fails with the following message: "SObject row was retrieved via SOQL without querying the requested field: Account.Is_Tech__c".

D. If executed in a synchronous context, the apex transaction is likely to fail by exceeding the DML governor limits

246. Which two events need to happen when deploying to a production org?

A. All apex code must have at least 75% test coverage.

B. All triggers must have at least 1% TEST Coverage.

C. All Process Builder Processes must have at least 1% TEST COVERAGE.

D. All Visual flows must have at least 1% test coverage.

247. An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a Master/Detail relationship to the order Object. A developer has a requirement to calculate the order amount on an order and the line amount on each Item based quantity and price. What is the correct implementation?

A. Implement the line amount as a numeric formula field and the order amount as a roll-up summary field.

B. Implement the line amount as a currency field and the order amount as a SUM formula field.

C. Write a process on the Line Item that calculates the amount and order amount and updates the fields on the Line Item and the Order.

D. Write a single before trigger on the Line Item that calculates the Item amount and updates the order amount on the Order.

248. Given the following code snippet, that is part of a custom controller for a Visualforce page:

```
public void upadteContact(Contact thisContact){
thisContact.Is_Active_c - false;
try{
update thisContact;}catch(Exception e){
String errorMessage = 'An error occurred while updating the Contact. '+ve.getMessage()}
ApexPages.addmessage(new ApexPages.message(ApexPages.severity.FATAL,errorMessage)};
}
}
```

In which two ways can the try/catch be enclosed to enforce object and field level permissions and prevent the DML Statement from being executed if the current logged in user does not have the appropriate level of access?

A. Use if (Schema.sObjectsType.Contact.isUpdatable())

B. Use if (Schema.aObjectsType.Contact.fields.Is_Active_c.isUpdatable())

C. Use if (Schema.sObjectsType.Contact.isAccessible())

D. Use if (thisContact.OwnerId==UserInfo.getUserId())

249. A developer is asked to create a Visualforce page that display some Account fields as well as fields configured on the page layout for related Contacts. How should the developer implement this request?

A. Use the <apex:relatedList> tag.

B. Use the <apex:include> tag.

C. Add a method to the standard controller.

D. Create a controller extension.

250. A developer is asked to create a Visualforce page for Opportunities that allows users to save or merge the current record. Which approach should the developer use to meet this requirement?

A. A controller extension

B. Visualforce page JavaScript

C. A custom controller.

D. Standard controller methods

251. What should a developer use to obtain the Id and Name of all the Leads, Accounts, and Contacts that have the company name "Universal Containers"?

A. SELECT Lead.id, Lead.Name, Account.id, Account.Name, Contact.id, Contact.Name FROM Lead, Account, Contact WHERE CompanyName= "Universal Containers"

B. SELECT Lead(id, name), account(id, name), contact(id, name) FROM Lead, Account, Contact WHERE Name = "Universal Containers"

C. FIND 'Universal Containers' IN CampanyName Fields RETURNING Lead(id, name), account(id, name), contact(id, name)

D. FIND 'Universal Containers' IN Name Fields RETURNING Lead(id, name), account(id, name), contact(id, name)

252. A developer has a requirement to create an Order when an Opportunity reaches a "Closed-Won" status. Which tool should be used to implement this requirement?

A. Process Builder. B. Apex Trigger. C. Lightning Component. D. Flow Builder

253. In the following example, which sharing context will myMethod execute it is invoked?

```
Public Class myClass{
Public viod myMethod () { /*implementation*/ }
}
```

A. Sharing rules will be enforced by the instantiating class.

B. Sharing rules will not be enforced for the running user.

C. Sharing rules will be inherited from the calling context.

D. Sharing rules will be enforced for the running user.

254. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the account. The method also performs a DML statement to save the changes to the database. Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits?

A. Use the @ReadOnly annotation to bypass the number of rows returned by a SOQL.

B. Use the System.Limit class to monitor the current CPU governor limit consumption.

C. Use the Database.Savepoint method to enforce database integrity.

D. Use Partial DML statements to ensure only valid data is committed.

255. What is the accurate statement about with sharing keyword? choose 2 answers

A. Both inner and outer class can be declared as with sharing

B. Inner class inherit the sharing setting from the container class

C. Either inner class or outer classes can be declared as with sharing but not both

D. Inner class do not inherit the sharing setting from the container class

256. Which two statements can a developer use to throw a custom exception of type MissingFieldValueException? Choose 2 answers.

A. Throw Exception (new MissingFieldValueException());

B. Throw new MissingFieldValueException ('Problem occurred');

C. Throw (MissingFieldValueException, 'Problem occurred');

D. Throw new MissingFieldValueException();

257. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Whithin the class, the developer identifies the following method as a security threat: List<Contact> performSearch(String lastName){ return Database.query('Select Id, FirstName, LastName FROM Contact WHERE LastName Like %'+lastName+'%); } What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

A. Use a regular expression expression on the parameter to remove special characters.
B. Use the @Readonly annotation and the with sharing keyword on the class.
C. Use the escapeSingleQuote method to sanitize the parameter before its use. (Missed)
D. Use variable binding and replace the dynamic query with a static SOQL. (Missed)

258. A developer executes the following code in the Developer Console:
List<Account> fList = new List <Account> ();

For (integer i= 1; I <= 200; i++){

fList.add(new Account (Name = 'Universal Account ' + i));}

Insert fList;

List <Account> sList = new List<Account>();

For (integer I = 201; I<=20000; i ++){

sList.add(new Account (Name = 'Universal Account ' + i));}

Insert sList;

How many accounts are created in the Salesforce organization ?

A. 0 B. 20000 c. 1000 D. 200

259. A Visualforce page has a standard controller for an object that has a lookup relationship to a parent object. How can a developer display data from the parent record on the page?

A. By adding a second standard controller to the page for the parent record.
B. By using merge field syntax to retrieve data from the parent record.
C. By using SOQL on the Visualforce page to query for data from the parent record.
D. By using a roll-up formula field on the child record to include data from the parent record.

260. In which two org types can a developer create new Apex Classes? Choose 2 answers

A. Sandbox. B. Enterprise Edition **C. Developer Edition.** D. Unlimited

261. A developer needs to apply the look and feel of lightning experience to a number of applications built using a custom third-party javascript framework and rendered in visualforce pages which option achieves this?

A. Configure the user interface options in the setup menu to enable legacy mode for visualforce.

B. Set the attribute enablelightning to "true" in the definition

C. Replace the third-party javascript library with native visualforce tags

D. Incorporate salesforce lightning design system css style sheets into the javascript applications

262. What are two features of Heroku Connect? Choose 2 answers

A. Bidirectional syncs, allowing data to be written into Salesforce.

B. Real Time Sync between Salesforce and Postgres.

C. Displaying data from an external data store via External Objects.

D. Near Real Time Sync between Heroku Postgres and Salesforce.

263. A developer created an Apex trigger using the Developer Console and now wants to debug code. How can the developer accomplish this in the Developer Console?

A. Add the user name in the Log Inspector.

B. Open the Progress tab in the Developer Console.

C. Open the logs tab in the Developer Console.

D. Select the Override Log Triggers checkbox for the trigger

264. Where would a developer build a managed package?

A. Developer Edition B. Developer Sandbox C. Partial Copy Sandbox D. Unlimited Edition

265. A developer has javascript code that needs to be called by controller functions in multiple components by extending a new abstract component. Which resource in the abstract component bundle allows the developer to achieve this?

A. Superrender.js B. Controller.js **C. Helper.js** D. Rendered.js

266. Which Apex collection is used to ensure that all values are unique?

A. A List B. An sObject C. An Enum **D. A Set**

267. A developer created a visualforce page using a custom controller that calls an apex helper class. A method in the helper class hits a governor limit. what is the result of the transaction?

A. The helper class creates a savepoint and continues
B. The custom controller calls the helper class method ag
C. All changes made by the custom controller are saved
D. All changes in the transaction are rolled back

268. Which two combined methods should a developer use to prevent more than one open Opportunity on each Account? Choose 2 answers

A. Create an Account Trigger to generate an error on Opportunity insert

B. Create an Account Roll-up Summary field to count open Opportunities
C. Create an Opportunity Validation Rule to generate an error on insert
D. Create an Opportunity Workflow Rule to auto-close the Opportunity

269. What is the result of the following code block ?
Integer x = 1;Integer Y = 0;While(x < 10){Y++;}

A. X = 0 B. Y = 10 **C. An error occurs** D. Y = 9

270. What can a Lightning Component contain in its resource bundle? Choose 2 answer

A. Properties files with global settings

B. Build scripts for minification

C. CSS styles scoped to the component

D. Custom client side rendering behavior.

271. Which data structure is returned to a developer when performing a SOSL search?

A. A list of sObjects.

B. A map of sObject types to a list oflists of sobjects

C. A list of lists of sObjects.

D. A map of sObject types to a list of sObjects

272. What should a developer working in a sandbox use to exercise a new test Class before the developer deploys that test production?Choose 2 answers

A. The Run Tests page in Salesforce Setup.

B. The Test menu in the Developer Console.

C. The REST API and ApexTestRun method

D. The Apex Test Execution page in Salesforce Setup

273. What is a good practice for a developer to follow when writing a trigger? (Choose 2)

A. Using the Map data structure to hold query results by ID.

B. Using @future methods to perform DML operations.

C. Using the Set data structure to ensure distinct records.

D. Using synchronous callouts to call external systems

274. A company would like to send an offer letter to a candidate, have the candidate sign it electronically, and then send the letter back. What can a developer do to accomplish this?

A. Create a visual workflow that will capture the candidate's signature electronically

B. Install a managed package that will allow the candidate to sign documents electronically

C. Develop a Process Builder that will send the offer letter and allow the candidate to sign it electronically.

D**.** Create an assignment rule that will assign the offer letter to the candidate

275. What is the preferred way to reference web content such as images, style sheets, JavaScript, and other libraries that is used in Visualforce pages?

A. By accessing the content from a third -party CON.

B. By uploading the content in the Documents tab.

C. By accessing the content from Chatter Files.

D. By uploading the content as a Static Resource.

276. A developer wants to display all of the available record types for a Case object. The developer also wants to display the picklist values for the Case.Status field. The Case object and the Case.Status field are on a custom Visualforce page. Which action can the developer perform to get the record types and picklist values in the controller? (Choose 2)

A. Use SOQL to query case records in the org to get all values for the Status picklist field.

B. Use Schema.PicklistEntry returned by Case.Status.getDescribe().getPicklistValues().

C. Use SOQL to query Case records in the org to get all the RecordType values available for Case.

D. Use Schema.RecordTypeInfo returned by Case.sObjectType.getDescribe().getRecordTypeInfos().

277. The Review__c object has a lookup relationship up to the Job_Application__c object. The Job_Application__c object has a master-detail relationship up the Position__c object. The relationship field names are based on the auto-populated defaults. What is the recommended way to display field data from the related Review__c records on a Visualforce page for a single Position__c record?

A. Utilize the Standard Controller for Position__c and cross-object Formula fields on the Review__c object to display Review__c data.

B. Utilize the Standard Controller for position__c and a Controller Extension to query for Review__c data.

C. Utilize the Standard Controller for Position__c and cross-object Formula fields on the job_Application__c object to display Review__c data.

D. Utilize the Standard Controller for position__c and expression syntax in the page to display related Review__c data through the job_Application__c object

278. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit. public class without sharing OpportunityService(public static List<OpportunityLineItem> getOpportunityProducts(Set<Id> opportunityIds){ List<OpportunitylineItem> oppLineItems = new List<OpportunityLineItem>(); for(Id thisOppId : opportunityIds){ oppLineItems.addAll([Select Id FROM OpportunityLineItems WHERE OpportunityId = :thisOppId)]; } return oppLineItems; } } The above method might be called during a trigger execution via a Lightning component. Which technique should be implemented to avoid reaching the governor limit?

A. Use the System.Limits.getlimitQueries() method to ensure the number of queries is less than 100.

B. Use the System.Limits.getQueries() method to ensure the number of queries is less than 100.

C. Refactor the code above to perform only one SOQL query, filtering by the Set of opportunityIds.

D. Refector the code above to perform the SOQL query only if the Set of opportunityIds contains less 100 Ids.

279. How can a developer use a Set<Id> to limit the number of records returned by a SOQL query?

A. Pass the Set as an argument in a reference to the Database.query() method
B. Reference the Set in the WHERE clause of the query
C. Reference the Set in the LIMIT clause of the query
D. Pass the query results as an argument in a reference to the Set.containsAll() method.

280. What are three capabilities of the <ltng:require> tag when loading JavaScript resources in Aura components? Choose 3 answers

A. Loading files from documents

B. One-time loading for duplicate scripts

C. Loading scripts in parallel

D. Specifying loading order

E. Loading externally hosted scripts.

281.

1. Which three steps allow a custom SVG to be included in a Lightning web component? Choose 3 answers

☐ **Upload the SVG as a static resource**
☐ **Import the static resource and provide a getter for it in JavaScript**
☐ **Reference the getter in the HTML template**

2. Which process automation should be used to send an outbound message without using Apex code?
☐ **Workflow Rule**

3. A developer is tasked to perform a security review of the ContactSearch Apex class, list code that exists in the system. Within the class, the developer identifies the following method as a security threat.
List<Contact> performSearch(String lastname){
Return Database.query(SELECT Id, FirstName, LastName FROM Contact WHERE LastName like % ' + LastName + ' % ') ;
}
What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers
- **Use variable binding and replace the dynamic query with a static SOQL.**
- **Use the escapeSingleQuotes method to sanitize the parameter before its use.**

4. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "**Boss**" is found, the Apex method should jump to the first line of code outside of the for loop.
Which Apex solution will let the developer implement this requirement? **Break.**

5. The values "**High", "Medium", and "Low**" are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above?
☐ **create the picklist on each object and use a Global Picklist Value Set containing the values.**

6. Which aspect of Apex programming is limited due to multitenancy?
☐ the **number of records returned from database queries**

7. Universal Containers has a system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce?
☐ **Number with External ID**

8. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, Contact Info.
Which is the correct definition of the Apex method that gets the additional information?
☐ @InvocableMethod (label='Additional Info')
Public static List<ContactInfo> getInfo(List<Id> contactIds}
{ /*implementation*/ }

9. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement?
Define a Data Export scheduled job.

10. Assuming that 'name; is a String obtained by an <apex:inputText > tag on a Visualforce page. Which two SOQL queries performed are safe from **SOQL injections**? Choose 2 answers

☐ String query = 'SELECT Id FROM Account WHERE Name LIKE \ '%' + String.escapeSingleQuotes (name) + '%''
List<Account> results = Database. Query (query);
☑ String query = '%' + name + '%' 1;
List<Account> results = [SELECT Id FROM Account WHERE Name LIKE 'query'; check options.

11. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations.
Which type of Salesforce orgs should they use for their deployment?
☑ **Scratch Orgs**

12. Which code displays the content of Visualforce page as PDF?
☑ **<apex:page renderAs="pdf">**

13. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements?
☐ **Flow Builder**

14. What does the Lightning Component framework provide to developers?
☐ **Prebuilt components that can be reused**

15. Which three operations affect the number of times a trigger can fire: RPW? Choose 3 answers
☑ **Workflow Rules RPW**
☑ **Process Flows**
☑ Roll-up Summary fields

16. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers

☐ **Bubble**
☑ **Default**

17. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.
Public interface Sortable (
Void sort();
)
Public interface Drawable (
Void draw();
)
Which is the correct implementation?
☑ **Public class DrawList implements Sortable, Drawable {**
Public void sort() { /*implementation*/}
Public void draw() { /*implementation*/}
}

18. Given the following Block:
List<Case> casesToUpdate = new List<Case>();
For(Case thisCase : [SELECT Id, Status FROM **Case LIMIT 50000)){**

thisCase.Status = 'Working' ;
casesToUpdate.add(thisCase);
}
Try{
Database.update(casesToUpdate.false);
}catch(Exception e){
System.debug{e.getmessage());
}
What should a LIST Case Code: developer consider for an environment that has over 10,000k
50k case records?
The transaction will succeed and changes will be committed.

19. A developer needs to prevent the creation of Request records when certain conditions exists in the system . A request logic class exists that checks the condition . Correct implementation:
Trigger RequestTrigger on Request (before insert) {
RequestLogic.validateRecords (trigger.new); }

20. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order?
 Use a Max Roll-Up Summary field on the latest availability date fields.

21. Which exception type cannot be caught: Limit exception.

22. A developer needs to confirm that a works correctly without changing the organizations data. What should the developer do to test the Contact trigger?
-Use the Test menu on the Developer console to run all test classes for contact trigger.

23. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use?
-FIND{dev@uc.com} IN Email fields RETURNING contact (Email), user (Email)

24. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross scripting vulnerability?

ApexPages.currentPage() .getParameters() .get('url_param') .escapeHtml4()

25. Where are two locations a developer can look to find information about the status of asynchronous or future calls? Choose 2 answers
 Apex Jobs
 Apex Flex Queue

26. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page. Example values are as follows:
Name
Amount
Account

Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers
 create an update trigger on opportunity object that calls helper method using @future (callout=true) to perform HTTP Rest callout.
 create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page.

27. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test?
Use Test.loadData () and reference a static resource.

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so.

What is a possible reason that this change was not permitted?
The Account Records contains vendor Roll up summary fields.

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than $10,000? Choose 3 answers
Process Builder
Workflow Rule
Approval process

30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox?
Ant Migration Tool

31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database. Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers
Use the System. Limit class to monitor the current CPU governor limit consumption.
Use the Database.Savepoint method to enforce database integrity.

32. Which three data types can a SOQL query return? Choose 3 answers
Integer
sObject
List of sObjects

33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience?
<apex:page lightningStyleSheets="true">

34. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'?
List<List <sObject>> searchList = [FIND '*ACME*' IN ALL FIELDS RETURNING Contact, Lead];

35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated.
How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account?
 2

36. A developer has following requirements: calculate total amount on an order, calculate the line items for each line item based on quantity selected and price, move the line items to a different order if a line item is not in stock. Which relation supports it:
-Line item has Master detail field to order and the Master can be re-parented.

37. Which code in a Visualforce page and /or might present a security vulnerability?
 <apex: outputText escape="false" value="{!$CurrentPage.parameters.UserInput}" />

38. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book?
 Use Test. getStandardPricebookId () to get the standard price book ID.

39. Universal Containers (UC) decided it will **not send emails to support personnel** directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system to be notified of the error.
What is the appropriate publish/subscribe logic to meet these requirements?

Publish the error event using the Eventbus.publish() method and have the external system subscribe to the event using CometD.

40. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts. How should the developer implement this request?
-Use the <apex: related list> tag.

41. The Job_ Application __c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job_Application__c records. Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts?
-**(Select Id, (Select Id from job__Application__*r* FROM contact where Account. Industry='Technology'.**

42. Universal Containers decides to use exclusively **declarative development** to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3
-**Relationships, Custom fields and objects, Roll up summaries.**

43. A developer creates a new Apex trigger with a class, and writes a test class that only exercises **95% coverage** of the new Apex helper class. Change set deployment to production fails with the test coverage warning: Test coverage of selected Apex trigger is **0%, at least 1%** test coverage is required. What should developer do to successfully deploy the new Apex trigger and helper class?
-**create a Test class and methods to cover the Apex trigger.**

44. What are three ways for a developer to execute tests in an org? Choose 3 answers
 Tooling API

Setup menu, developer console based on options.

SalesforceDX

45. A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debt Amount' should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers

Use the final keyword and assign its value when declaring the variable.

Use the final keyword and assign its value in the class constructor.

46. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. The Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address".
Which field should the developer add to create the most efficient model that supports the business need?

Add a lookup field on account object to the global address object.

47. How should a custom user interface be provided when a user edits an Account in Lightning Experience?

Override the Account's Edit button with a Lightning Component.

In case of Contact \ visualforce page option is true

48. Given the following block of code:

```
Try{
List<Accounts> retrieveRecords = [SELECT Id FROM Account WHERE Website = null];
} catch(Exception e){
//manage exception logic
}
```

What should a developer do to ensure the code execution is disrupted if the **retrieveRecords** list remains empty after the SOQL query?

-Check the state of the Retrieved Records variable and throw a custom exception if the variable is empty.

49. A Recursion transaction is initiated by a DML statement creating records for these two objects- accounts and contacts. The Account trigger hits stack depth of 16. True about the outcome of transaction

-The transaction succeeds and the changes are committed to database.

50. A developer created a Visualforce page and custom controller to display the Account type field as shown below.
Custom controller code:

```
public class customCtrlr{
private Account theAccount;
public String actType;
public customCtrlr(){
theAccount = (SELECT Id, Type FROM Account
WHERE Id = :ApexPages.currentPage().getParameters().get('id')};
actType = theAccount.Type;
}
}
```

Visualforce page snippet:

The Account Type is {!actType}
The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is properly referenced on the Visualforce page, what should the developer do to correct the problem?
-Add a getter method for the ActType attribute

51. A developer **must implement a CheckPaymentProcessor class** that provides check processing payment capabilities that adhere to what is defined for payments in the Payment Processor interface.
public interface PaymentProcessor {
void pay(Decimal amount);
}
Which is the correct implementation to use the PaymentProcessor interface class?
 Public class CheckPaymentProcessor implements PaymentProcessor {
Public void pay (Decimal amount) {/*implementation}
}
Don't click (Decimal amount);

52. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers
 A method using the @InvocableMethod annotation can be declared as Public or Global.
 only one method using the @InvocableMethod annotation can be defined per Apex class.
 A method using the @InvocableMethod annotation must be declared as static.

53. Which two events need to happen when deploying to a production org? Choose 2 answers
 All triggers must have at least 1% test coverage.
 All Apex code must have at least 75% test coverage.

54. Application Events follow the traditional publish-subscribe model.
Which method is used to fire an event?
 Fire()

55. Given the following trigger implementation:
trigger leadTrigger on Lead (before update){
final ID BUSINESS_RECORDTYPEID = '01250000009Qad';
for(Lead thisLead : Trigger.new){
if(thisLead.Company !=null && thisLead.RecordTypeId != BUSINESS_RECORDTYPEID){
thisLead.RecordTypeId = BUSINESS_RECORDTYPEID;
}
}
}
The developer receives deployment errors every time a deployment is attempted from sandbox to production.
What should a developer do to ensure a successful deployment?

A. Ensure BUSINESS_RECORDTYPEID is retrieved using Schema.Describe calls.

56. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity.
Which update should the developer make in the Visual Flow?
-Add a new create Record Element.

57. When a user edits the **Postal Code** on an Account, a custom Account text field named “Time zone” must be updated based on the values in a PostalCodeToTimezone__c custom object. How should a developer implement this feature:
-**Build an account custom trigger.**

58. A **Next Best Action strategy** uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors.
What is the correct definition of the Apex method?
 @InvocableMethod
Global static List<List<Recommendation>> getLevel (List<ContactWrapper> input)
{ /* implementation*/}

Notes: The Enhance element can pass any number of inputs to the Apex action. The input parameter must be a list or a list of lists of a user-defined Apex object (for example, a custom class called DataContainer).

59. A developer is writing tests for a class and needs to insert records **to validate functionality.**
Which annotation method should be used to create records for every method in the test class?
● **@TestSetup**

62. An apex method, getaccounts, that returns a list of accounts **given a searchTerm** wire, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method?
● **@wire (getAccounts, { searchTerm: '$searchTerm'})**
AccountList;

63. What will be the output in the debug log in the event of a QueryExeption during a call to the @query method in the following Example?

```
Class myClass {
class customeexception extends queryException {}
public static accounts @query() {
account theaccount;
try (
-
finally {
system.debug('Done.');
}
return theAccount;
}
}
```

● Querying Accounts. Query Exception. Done

64. Which salesforce feature allows a developer to see when a user last logged into salesforce if Real-time notification is not required?
● Event monitoring log

65. A developer must create a shippingCalcultaor class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override.
● Public abstract class shippingCalculator {
public virtual void calculator() {/*implementation*/ } public abstract and public virtual. 2 lines

66. A developer has an integer variable called MaxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions.

How should the developer declare maxAttempts to meet these requirements?
● Declare maxAttempts as a **constant using the static and final keywords.**
67. Which salesforce org has a complete **duplicate copy of the production** org including data and configuration? - **Full sandbox.**

68. A developer must modify the following code snippet to prevent the number of SOQL queries **issued from exceeding the platform governor limit.**

-Refractor the code above to perform only SOQL query , filtering by the set of opportunityIDS.

69. Universal Containers stores orders and line Items in SF. For security reasons, financial reps **are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order**. **Which type of relationship should be used?**
☐ **Lookup**

70. Which three statements are true regarding custom exceptions in Apex?
● Custom Exception class name must end with 'Exception'
● Custom Exception class must extend the system Exception class
● Custom Exception class can implement one or many Interfaces

71. Given the following Apex statement:
Account myAccount = [select ID, name from account] ;
What occurs when more than one account is returned by the SOQL query?

● An unhandled exception is thrown and the code terminates.

72. A developer has a VF page and custom controller to save Account records. The developer wants to **display any validation rule violation to the user**. How can the developer make sure that validation rule violations are displayed?
● **Include <apex: messages> on the visualforce page.**

73. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. The code then executes with no exception or errors.
Why did the test method fail in the sandbox and pass in the dev console?
● The test method **relies** on existing data in the sandbox

74. A developer identifies the following triggers on Expense__c DeleteExpense, applyDefaultstoexpense ,validateexpenseupdate;
The triggers process before delete, before insert, and before update events respectively.
Which two techniques should the developer implement to ensure trigger best practice are followed?
● **Create helper classes** to execute the appropriate logic when a record is saved
● **unify all three triggers** in a single trigger on the expense__c object that includes all events

75. A developer wants to import 500 opportunity records into a sandbox
Why should the developer choose to use Data loader instead of data import wizard?
● Data import wizard does not support 'opportunities'

76. Universal Containers wants a **list button to display a VF page that allows users to edit multiple records.** Which VF feature supports this requirements?
RecordSetVar page attribute

77. A developer is debugging the following code to determine why accounts are not being created.
Account a =new account (name= 'a');
database.**insert** (a, false);
How should the code be altered to help debug the issue?
-**collect the insert method return value in save result records**.

78. what are two advantages of implementing the view layer of a SF application using aura component based development over VF?
● Self-contained and reusable units of an application
● Rich component ecosystem.

79. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged in user while using the custom search tool?
● Use the schema described calls

81. A developer must create a creditcardpayment class that provides an implementation of an existing payment class. Which is the correct implementation.
● Public class creditcardpayment **extends** payment {
public **overrride** void makepayment**(decimal amount)** {/*implemenation*/}

82. A developer must create a lightning component that allows users to input contact record information to create a contact record, including a salary__c custom field. what should the developer use, along with a lightning-record-edit form, so that salary__c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on salary__C?

● <lightning-input type=”number” value= “salary__c” formatter =”currency”>
</lightning-input>

83. A lightning component has a wired property, searchresults, that stores a list of opportunities. Which definition of the apex method, to which the searchresults property is wired, should be used?

● @auraenabled (cacheable=true)
public static list<Opportunity> search (string term) {/*implementation*/}

84. If Apex code executes inside the execute () method of an apex class when implementing the Batchable interface, which two statements are true regarding governor limits?

 The Apex governor limits might be higher due to the asynchronous nature of the transaction
 The Apex governor limits are reset for each iteration of the execute () method.

85. What should be enabled for working of Scratch org?

 Developer hub (Dev Hub)

86. How many accounts will be inserted by the following block of code? For (Integer i = 0 ; i < 500; i++) { Account a = new Account(Name='New Account ' + i); insert a; }

 0

87. Boolean odk;
Integer x;
if(abok=false;integer=x;){
X=1;
}elseif(abok=true;integer=x;){
X=2;
}elseif(abok!=null;integer=x;){
X=3;
)elseif{
X=4;}

 X=4

88. What are the three languages used in the visual force page?

 JavaScript, CSS, HTML

89. what are the methods used to show input in classic and lightning ?

 Use visualforce page in classic and lightning component in lightning

90. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers.

 <apex: include Lightning/>
 $Lightning.createComponent and $Lightning. Use

91. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot?

 Developer Console

92. order of execution in salesforce
 Validation rule,trigger,workflow,process builder,commit
VTWPC

93. The following Apex method is part of the contactservice class that is called from a trigger.
Public Static Void setBusinessUnitToEMEA(Contact thisContact) {
thisContact.Business_Unit__c = 'EMEA';
update thisContact;
}
How should the developer modify the code to ensure best practices are met?

-Public Static void setBusinessUnitToEMA(List<contact> contacts) {
for (contact thisContact : contacts) {
thisContact ,Business)_Unit__c = 'EMEA' ;
}
update contacts;
}

94. Universal Containers has as large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner?
 Incorporate the salesforce Lightning Design System CSS stylesheet into the Javascript applications.

95. An approval Process is defined in the Expense_Item___c object. A business rule idictates that whenever a user changes the status to 'submitted' on an Expense_Report__c record, all the Expense_item__c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met?
● Create a process Builder on Expense_Report__c with a 'submit for approval' action type to submit all related Expense_Item__c records when the criteria is met.

96. A developer must create an Apex class, contactcontroller, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly?
● Public inherited sharing class ContactController.
● Public with sharing class ContactController.

97. What is the maximum number of SOQL queries used by the following code?
List<Account> aList = [SELECT Id from Account LIMIT 5];
for (Account a : aList) {
List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id];
}
● 6

98. A developer created this Apex trigger that calls MyClass.myStaticMethod:
trigger myTrigger on Contact (before insert){
MyClass.myStaticMethod(trigger.new, trigger.oldMap) ;
}
The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage.
What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists?
● The deployment fails because the Apex trigger has no code coverage

99. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface?
-View the Apex jobs queue and apex flex queue.

100. How does the Lightning Component framework help developers implement solutions faster?
● By providing device-awareness for mobile and desktops

101. What are two ways for a developer to execute tests in an org?
● Tooling API
● Developer console

102. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship?

● A Master-Detail relationship detail record inherits the sharing and security of its Master record.

103. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account?

● 2

104. A licensed_professional__c custom object exists in the system with two mater-detail fields for the following objects: Certification__c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'sales reps' role not being able to access the licesnsed professional records?
● The Organization recently modified the sales reps role to restrict read/write access to licensed_professional__c
-The org. has private sharing model for certification__c and certification__c is the primary relationship in the licensed_professional__c custom object.

105. A custom picklist field, food_preference__c, exists on a custom object. The picklist contains the following options; 'vegan','kosher','no prefernce'. The developer must ensure a vlude is populated every time a record is created or updated. What is the most efficient way to ensure a value is selected every time a record is saved?
-Mark the field as required on the field definition.

==========

109.
Cloud Kicks Fitness, as ISV Salesforce partner, is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, Body Fat, and its method, caluclateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV's package namespace. Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace?
a. Declare the class and method using the global access modifier.
b. Declare the class as public and use the global access modifier on the method.
c. Declare the class as global and use the public access modifier on the method.
d. Declare the class and method using the public access modifier.

==========

110. Which two operations can be performed using a formula field? Choose 2 answers
- Calculating score on lead based.
- Displaying an image based on opportunity amount.

111. Which two are best practices when it comes to component and application event handling? Choose 2 answers

-Handle low-level events in the event handler and re-fire them as higher-level events.
-Reuse the event logic in a component bundle, by putting the logic in the helper

- The sales management team at UC requires that the lead source field at the lead record be populated when a lead is converted-validation rule.[VR]

112.Given the following code snippet that is a part of custom controller in visualforce:

Public void updatecontact (contact this contact) 2 answers 10 line
In which 2 try catch block:
. Use if(schema.sobjecttype.contact.isupdatable())
. Use if(schema.sobjecttype.contact.fields.IsActive__C.isupdatable())

113. UC has simple order management system app. Best practice to get the sum of all order line totals on the order header: Roll up summary fields.

114. A developer must build an application that tracks which account have purchased specific piece of equipment: Use MDR on product to account.

116. Code of sharing context will my method execute when it is invoked:

Public class myclass {
Public void my method () {/*implementation}
}
Sharing rules will not be enforced for the running user

Down questions
117.

Time Remaining: 1:32:43

Salesforce Certified Platform Developer I (SP20)

26 of 65. Refer to the following code that runs in an Execute Anonymous block:

```
for(List<Lead> theseLeads : [SELECT LastName, Company, Email FROM Lead LIMIT 20000]){
   for(Lead thisLead : theseLeads){
      if(thisLead.Email == null)
        thisLead.Email = assignGenericEmail(thisLead.LastName, thisLead.Company);
   }
   Database.Update(theseLeads,false);
}
```

In an environment where the full result set is returned, what is a possible outcome of this code?

A. The total number of records processed as a result of DML statements will be exceeded.

B. The transaction will succeed and the first ten thousand records will be committed to the database.

C. The transaction will succeed and the full result set changes will be committed to the database.

D. The total number of DML statements issued will be exceeded.

-

Answer is A

118.

45 of 65. A developer needs to create a custom interface in Apex.

Which three considerations must the developer keep in mind while developing the Apex interface?

Choose 3 answers

A. A method implementation can be defined within the Apex Interface.

B. The Apex class must be declared using the `interface` keyword.

C. New methods can be added to a public interface within a released package.

D. The Apex class access modifier can be set to Private, Public, or Global.

E. A method defined in an Apex interface cannot have an access modifier.

BDE

119.

50 An org tracks customer orders on an Order object and the line items of an Order on the Line Item object. The Line Item object has a
of Master/Detail relationship to the Order object. A developer has a requirement to calculate the order amount on an Order and the line amount
55. on each Line Item based on quantity and price.

What is the correct implementation?

A. Write a single before trigger on the Line Item that calculates the item amount and updates the order amount on the Order.

B. Implement the line amount as a currency field and the order amount as a SUM formula field.

C. Write a process on the Line Item that calculates the item amount and order amount and updates the fields on the Line Item and the Order.

D. Implement the line amount as a numeric formula field and the order amount as a roll-up summary field.

D

120.

53 of 65. Which Lightning code segment should be written to declare dependencies on a Lightning component, c:accountList, that is used in a Visualforce page?

A.
```
<aura:component access="GLOBAL" extends="ltng:outApp">
    <aura:dependency resource="c:accountList"/>
</aura:component>
```

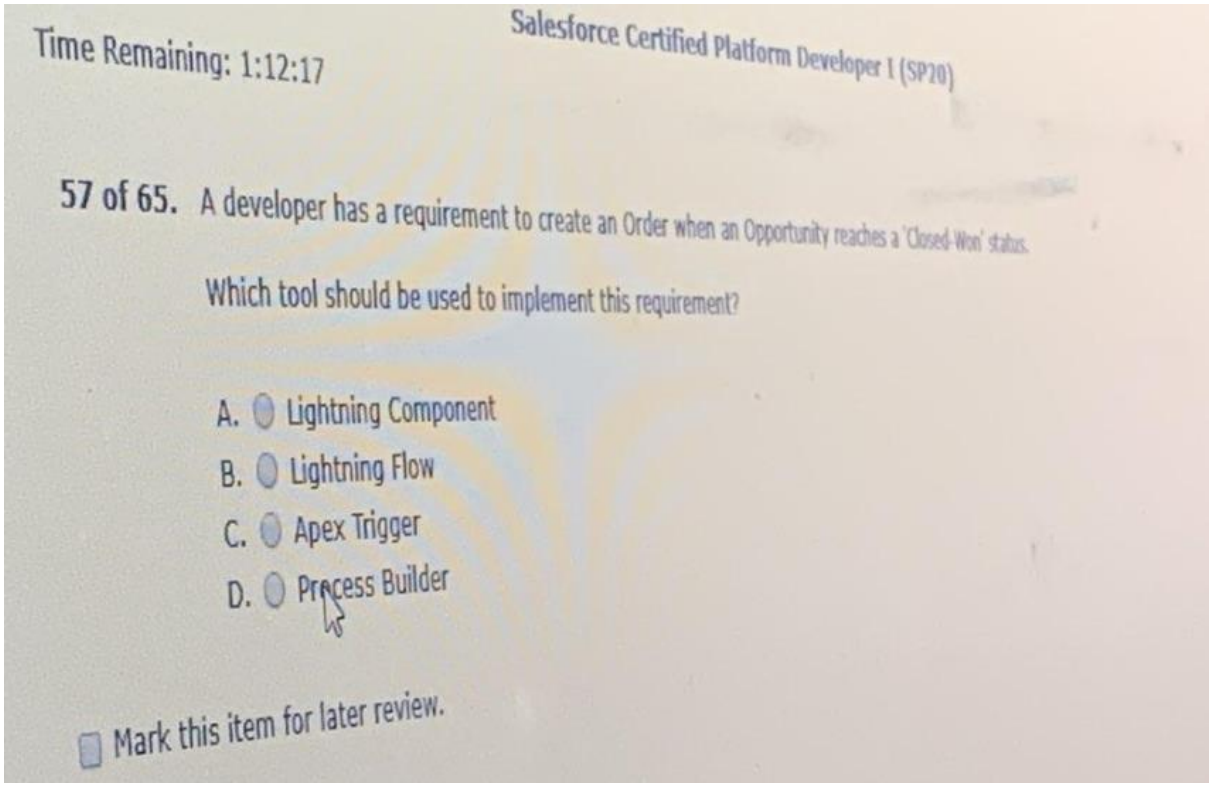
B.
```
<aura:application access="GLOBAL">
    <aura:dependency resource="c:accountList"/>
</aura:application>
```

C.
```
<aura:component access="GLOBAL">
    <aura:dependency resource="c:accountList"/>
</aura:component>
```

D.
```
<aura:application access="GLOBAL" extends="ltng:outApp">
    <aura:dependency resource="c:accountList"/>
</aura:application>
```

D application

121.



Process builder

122. Used to create scratch org: **salesforce CLI**

1. A developer is tasked to perform a security review of the ContactSearch Apex class that exists in the system. Within the class, the developer identifies the following method as a security threat.
List<Contact> performSearch(String lastname){
Return Database. Query('SELECT Id, FirstName, LastName FROM Contact WHERE LastName like % ' + LastName + ' % ') ;
}
What are two ways the developer can update the method to prevent a SOQL injection attack? Choose 2 answers

a. Use variable binding and replace the dynamic query with a static SOQL.
b. Use the escapeSingleQuotes method to sanitize the parameter before its use.

2. A developer uses a loop to check each Contact in a list. When a Contact with the Title of "Boss" is found, the Apex method should jump to the first line of code outside of the for loop. Which Apex solution will let the developer implement this requirement? **break;**

3. The values "High", "Medium", and "Low" are identified as common values for multiple picklists across different objects. What is an approach a developer can take to streamline maintenance of the picklists and their values, while also restricting the values to the ones mentioned above? **Create the picklist on each object and use a Global Picklist Value Set containing the values.**

4. Which aspect of Apex programming is limited due to multitenancy? **The number of records returned from database queries**

5. Universal Containers has an order system that uses an Order Number to identify an order for customers and service agents. Order records will be imported into Salesforce. How should the order number field be defined in Salesforce? **Number with External ID**

6. A Visual Flow uses an Apex Action to provide additional information about multiple Contacts stored in a custom class, ContactInfo. Which is the correct definition of the Apex method that gets the additional information?

@InvocableMethod(label='Additional Info')
Public static List<ContactInfo> getInfo(List<Id> contactIds}
{ /*implementation*/ }

7. Universal Containers wants to back up all of the data and attachments in its Salesforce org once a month. Which approach should a developer use to meet this requirement? **Define a Data Export scheduled job**

8. Assuming that 'name; is a String obtained by an <apex:inputText> tag on a Visualforce page. Which two SOQL queries performed are safe from SOQL injections? Choose 2 answers
a. String query = 'SELECT Id FROM Account WHERE Name LIKE \ '%' + String.escapeSingleQuotes(name) + '%'' List<Account> results = Database.query(query);
b. String query = '%' + name + '%' ; List<Account> results = [SELECT Id FROM Account WHERE Name LIKE 'query';

9. A team of developers is working on a source-driven project that allows them to work independently, with many different org configurations. Which type of Salesforce orgs should they use for their deployment? **Scratch Orgs**

10. Which code displays the content of Visualforce page as PDF? **<apex:page renderAs="pdf">**

11. A developer needs to implement the functionality for a service agent to gather multiple pieces of information from a customer in order to send a replacement credit card. Which automation tool meets these requirements? **Flow Builder**

12. What does the Lightning Component framework provide to developers? **Prebuilt components that can be reused**

13. Which three operations affect the number of times a trigger can fire? Choose 3 answers **a. Workflow Rules b. Process Flows c. Roll-up Summary fields**

14. Which two are phases in the Salesforce Application Event propagation framework? Choose 2 answers **a. Bubble b. Default**

15. A developer must create a DrawList class that provides capabilities defined in the Sortable and Drawable interfaces.

Public interface Sortable (Void sort();) Public interface Drawable (Void draw();)
Which is the correct implementation? **Public class DrawList implements Sortable, Drawable { Public void sort() { /*implementation*/} Public void draw() { /*implementation*/} }**
16. Given the following anonymous Block: List<Case> casesToUpdate = new List<Case>(); For(Case thisCase : [SELECT Id, Status FROM Case LIMIT 50000)){ thisCase.Status = 'Working' ; casesToUpdate.add(thisCase); } Try{ Database.update(casesToUpdate.false); }catch(Exception e){ System.debug{e.getmessage()); } What should a developer consider for an environment that has over 10,000 case records? **The transaction will fail due to governor limits**

17. A developer needs to prevent the creation of Request records when certain conditions exist in the system. A Requestlogic class exists that checks the conditions. What is the correct implementation?

trigger RequestTrigger on Request (before insert) { if(RequestLogic.isValid(Request)} Request.addError('Your request cannot be created at this time.');

18. Universal Containers stores the availability date on each Line Item of an Order and Orders are only shipped when all of the Line Items are available. Which method should be used to calculate the estimated ship date for an Order? **Use a Max Roll-Up Summary field on the latest availability date fields**

19. Which exception type cannot be caught? **LimitException**

20. A developer needs to confirm that a Contact trigger works correctly without changing the organizations data. What should the developer do to test the Contact trigger? **Use the Test menu on the Developer Console to run all test classes for the Contact trigger**

21. A developer wants to retrieve the Contact and Users with the email address 'dev@uc.com'. Which SOSL statement should the developer use? **FIND {dev@uc.com} IN Email Fields RETURNING Contact (Email), User (Email)**

22. Which three steps allow a custom SVG to be included in a Lightning web component? Choose 3 answers
a.

Upload the SVG as a static resource b. Import the static resource and provide a getter for it in JavaScript c. Reference the getter in the HTML template

23. Which process automation should be used to send an outbound message without using Apex code?
Workflow Rule

24. A developer has an Apex controller for a Visualforce page that takes an ID as a URL parameter. How should the developer prevent a cross site scripting vulnerability?
ApexPages.currentPage().getParameters().get('url_param').escapeHtml4()

25. Where are two locations a developer can look to find information about the status of asynchronous or future calls? Choose 2 answers **a. Apex Jobs b. Apex Flex Queue**

26. Universal Containers recently transitioned from Classic to Lightning Experience. One of its business processes requires certain values from the Opportunity object to be sent via an HTTP REST callout to its external order management system based on a user-initiated action on the Opportunity detail page.

Example values are as follows: Name Amount Account Which two methods should the developer implement to fulfill the business requirement? Choose 2 answers **a. Create a Visualforce page that performs the HTTP REST callout, and use a Visualforce quick action to expose component on the Opportunity detail page b. Create a Lightning component that performs the HTTP REST callout, and use a Lightning Action to expose component on the Opportunity detail page**

27. A developer needs to have records with specific field values in order to test a new Apex class. What should the developer do to ensure the data is available to the test? **Use Test.loadData() and reference a static resource**

28. Universal Containers (UC) uses a custom object called Vendor. The Vendor custom object has a Master-Detail relationship with the standard Account object. Based on some internal discussions, the UC administrator tried to change the Master-Detail relationship to a Lookup relationship but was not able to do so. What is a possible reason that this change was not permitted? **The Account records contain Vendor roll-up summary fields**

29. Which three process automations can immediately send an email notification to the owner of an Opportunity when its amount is changed to be greater than $10,000? Choose 3 answers

a. Process Builder b. Workflow Rule c. Visual flow/ Flow Builder

30. A development team wants to use a deployment script to automatically deploy to a sandbox during their development cycles. Which should they use to deploy to the sandbox? **Ant Migration Tool**

31. A developer has to identify a method in an Apex class that performs resource intensive actions in memory by iterating over the result set of a SOQL statement on the Account. The method also performs a DML statement to save the changes to the database. Which two techniques should the developer implement as a best practice to ensure transaction control and avoid exceeding governor limits? Choose 2 answers **A. Use the System.Limit class to monitor the current CPU governor limit consumption. B. Use the Database.Savepoint method to enforce database integrity.**

32. Which three data types can a SOQL query return? Choose 3 answers **a. Integer b. sObject c. List of sObjects**

33. Which code should be used to update an existing Visualforce page that uses standard Visualforce components so that the page matches the look and feel of Lightning Experience? **<apex:page lightningStyleSheets="true">**

34. Which statement generates a list of Leads and Contacts that have a field with the phrase 'ACME'? **List<List <sObject>> searchList = [FIND "*ACME*" IN ALL FIELDS RETURNING Contact, Lead];**

35. A developer writes a single trigger on the Account object on the after insert and after update events. A workflow rule modifies a field every time an Account is created or updated. How many times will the trigger fire if a new Account is inserted, assuming no other automation logic is implemented on the Account? 2

36. A developer has the following requirements: Calculate the total amount on an order. Calculate the line amount for each line item based on quantity selected and price. Move line items to a different order if a line item is not in stock. Which relationship implementation supports these requirements? **Line Item has a Master-Detail field to Order and the Master can be re-parented**

37. Which code in a Visualforce page and /or controller might present a security vulnerability? **<apex:outputText escape="false" value="{!$CurrentPage.parameters.userInput}" />**

38. A developer wants to get access to the standard price book in the org while writing a test class that covers an OpportunityLineItem trigger. Which method allows access to the price book? **Use Test. getStandardPricebookId() to get the standard price book ID**

39. Universal Containers (UC) decided it will not send emails to support personnel directly from Salesforce in the event that an unhandled exception occurs. Instead, UC wants an external system to be notified of the error. What is the appropriate publish/subscribe logic to meet these requirements? **Publish the error event using the Eventbus.publish() method and have the external system subscribe to the event using CometD.**

40. A developer is asked to create a Visualforce page that displays some Account fields as well as fields configured on the page layout for related Contacts. How should the developer implement this request? **Use the <apex:relatedList> tag**

41. The Job_Application__c custom object has a field that is a Master-Detail relationship to the Contact object, where the Contact object is the Master. As part of a feature implementation, a developer needs to retrieve a list containing all Contact records where the related Account Industry is 'Technology' while also retrieving the Contact's Job_Application__c records. Based on the object's relationships, what is the most efficient statement to retrieve the list of contacts? **(SELECT Id, (SELECT Id FROM Job_Application__r) FROM Contact WHERE Account.Industry = 'Technology');**

42. Universal Containers decides to use exclusively declarative development to build out a new Salesforce application. Which three options should be used to build out the database layer for the application? Choose 3 answers

A. Relationships B. Custom Objects and Fields C. Roll-Up Summaries

43. A developer creates a new Apex trigger with a helper class, and writes a test class that only exercises 95% coverage of the new Apex helper class. Change set deployment to production fails with the test coverage warning: "Test coverage of selected Apex Trigger is 0%, at least 1% test coverage is required." What should the developer do to successfully deploy the new Apex trigger and helper class? **Create a test class and methods to cover the Apex trigger**

44. What are three ways for a developer to execute tests in an org? Choose 3 answers **A. Tooling API B. Setup Menu C. SalesforceDX**

45. A developer is implementing an Apex class for a financial system. Within the class, the variables 'creditAmount' and 'debtAmount' should not be able to change once a value is assigned. In which two ways can the developer declare the variables to ensure their value can only be assigned one time? Choose 2 answers

A. Use the final keyword and assign its value when declaring the variable. B. Use the final keyword and assign its value in the class constructor.

46. Universal Containers (UC) wants to lower its shipping cost while making the shipping process more efficient. The Distribution Officer advises UC to implement global addresses to allow multiple Accounts to share a default pickup address. The developer is tasked to create the supporting object and relationship for this business requirement and uses the Setup Menu to create a custom object called "Global Address". Which field should the developer add to create the most efficient model that supports the business need?
Add a Lookup field on the Account object to the Global Address object

47. How should a custom user interface be provided when a user edits an Account in Lightning Experience?
Override the Account's Edit button with a Lightning Component

48. Given the following block of code:

try{ List<Accounts> retrieveRecords = [SELECT Id FROM Account WHERE Website = null]; } catch(Exception e){ //manage exception logic } What should a developer do to ensure the code execution is disrupted if the retrieveRecords list remains empty after the SOQL query? **Check the state of the retrievedRecords variable and use System.assert(false) if the variable is empty.**

49. A recursive transaction is initiated by a DML statement creating records for these two objects: Accounts Contacts The Account trigger hits a stack depth of 16. Which statement is true regarding the outcome of the transaction? **The transaction succeeds and all changes are committed to the database**

50. A developer created a Visualforce page and custom controller to display the Account type field as shown below. Custom controller code: public class customCtrlr{ private Account theAccount; public String actType; public customCtrlr(){ theAccount = (SELECT Id, Type FROM Account WHERE Id = :ApexPages.currentPage().getParameters().get('id')}; actType = theAccount.Type; } } Visualforce page snippet: The Account Type is {!actType} The value of the account type field is not being displayed correctly on the page. Assuming the custom controller is properly referenced on the Visualforce page, what should the developer do to correct the problem? **Add a getter method for the actType attribute**

51. A developer must implement a CheckPaymentProcessor class that provides check processing payment capabilities that adhere to what is defined for payments in the PaymentProcessor interface. public interface PaymentProcessor { void pay(Decimal amount); } Which is the correct implementation to use the PaymentProcessor interface class? **Public class CheckPaymentProcessor implements PaymentProcessor { Public void pay(Decimal amount) {} }**

52. What are three considerations when using the @InvocableMethod annotation in Apex? Choose 3 answers **A. A method using the @InvocableMethod annotation can be declared as Public or Global. B. Only one method using the @InvocableMethod annotation can be defined per Apex class. C. A method using the @InvocableMethod annotation must be declared as static.**

53. Which two events need to happen when deploying to a production org? Choose 2 answers **A. All triggers must have at least 1% test coverage. B. All Apex code must have at least 75% test coverage**

54. Application Events follow the traditional publish-subscribe model. Which method is used to fire an event? **Fire()**

55. Given the following trigger implementation:

trigger leadTrigger on Lead (before update){ final ID BUSINESS_RECORDTYPEID = '01250000009Qad'; for(Lead thisLead : Trigger.new){ if(thisLead.Company !=null && thisLead.RecordTypeId != BUSINESS_RECORDTYPEID){ thisLead.RecordTypeId = BUSINESS_RECORDTYPEID; } } The developer receives deployment errors every time a deployment is attempted from sandbox to production. What should a developer do to ensure a successful deployment? **Ensure BUSINESS_RECORDTYPEID is published as part of the deployment components**

56. An org has an existing Visual Flow that creates an Opportunity with an Update Records element. A developer must update the Visual Flow to also create a Contact and store the created Contact ID's on the Opportunity. Which update should the developer make in the Visual Flow? **Add a new Create Records element.**

57. When a user edits the Postal Code on an Account, a custom Account text field named "Timezone" must be updated based on the values in a PostalCodeToTimezone__c custom object. How should a developer implement this feature? **Build an Account custom trigger.**

58. A Next Best Action strategy uses an Enhance Element that invokes an Apex method to determine a discount level for a Contact, based on a number of factors. What is the correct definition of the Apex method? **@InvocableMethod global static List<List<Recommendation>> getLevel(List<ContactWrapper> input) { /* implementation*/}**

Notes: The Enhance element can pass any number of inputs to the Apex action. The input parameter must be a list or a list of lists of a user-defined Apex object (for example, a custom class called DataContainer).
59. A developer is writing tests for a class and needs to insert records to validate functionality. Which annotation method should be used to create records for every method in the test class? **@TestSetup**

60. An apex method, getaccounts, that returns a list of accounts given a searchTerm, is available for lightning web components to use. What is the correct definition of a lightning web component property that uses the GetAccounts method? **@wire(getAccounts, { searchTerm: '$searchTerm'}) AccountList;**

61. What will be the output in the debug log in the event of a QueryExeption during a call to the @query method in the following Example? Class myClass { class customeexception extends queryException {} public static accounts @query() { account theaccount; try (

- - - finally { system.debug('Done.');
} return theAccount;
}
Querying Accounts. Query Exception. Done

62. Which salesforce feature allows a developer to see when a user last logged into salesforce if real-time notification is not required?

Event monitoring log
63. A developer must create a shippingCalcultaor class that cannot be instantiated and must include a working default implementation of a calculate method, that sub-classes can override. **Public abstract class shippingCalculator { public virtual void calculator() {/*implementation*/ }**

64. A developer has an integer variable called maxAttempts. The developer needs to ensure that once maxAttempts is initialized, it preserves its value for the length of the Apex transaction; while being able to share the variable's state between trigger executions. How should the developer declare maxAttempts to meet these requirements? **Declare maxAttempts as a constant using the static and final keywords.**

65. Which salesforce org has a complete duplicate copy of the production org including data and configuration? **Full Sandbox**

66. A developer must modify the following code snippet to prevent the number of SOQL queries issued from exceeding the platform governor limit. **{//Some Code// Use the System.Limits.getQueries() method to ensure the number of queries is less than 100**.

67. Universal Containers stores orders and line Items in SalesForce. For security reasons, financial reps are allowed to see information on the order such as order amount, but they aren't allowed to see the line items on the order. Which type of relationship should be used? **Master-Detail**

68. Which three statements are true regarding custom exceptions in Apex? **A. Custom Exception class name must end with 'Exception' B. Custom Exception class must extend the system Exception class C. Custom Exception class can implement one or many Interfaces**

69. Given the following Apex statement: Account myAccount = [select ID, name from account] ; What occurs when more than one account is returned by the SOQL query? **An unhandled exception is thrown and the code terminates**

70. A developer has a Visualforce page and custom controller to save Account records. The developer wants to display any validation rule violation to the user. How can the developer make sure that validation rule violations are displayed?

Include <apex:messages> on the visualforce page.

71. A developer observes that an Apex test method fails in the sandbox. To identify the issue, the developer copies the code inside the test method and executes it via the execute anonymous tool in the dev console. the code then executes with no exception or errors. Why did the test method fail in the sandbox and pass in the dev console? **The test method relies on existing data in the sandbox**

72. A developer identifies the following triggers on the Expense_c object: DeleteExpense, applyDefaultstoexpense validateexpenseupdate; The triggers process before delete, before insert, and before update events respectively. Which two techniques should the developer implement to ensure trigger best practice are followed?

A. Create helper classes to execute the appropriate logic when a record is saved
B. unify all three triggers in a single trigger on the expense__c object that includes all event
73. A developer wants to import 500 opportunity records into a sandbox Why should the developer choose to use Data loader instead of data import wizard? **Data import wizard does not support Opportunities.**

74. Universal Containers wants a list button to display a VF page that allows users to edit multiple records. Which Visualforce feature supports this requirement? **recordSetVar page attribute**

75. A developer is debugging the following code to determine why accounts are not being created. Account a =new Account(Name= 'A'); Database.insert(a, false); How should the code be altered to help debug the issue? **Collect the insert method return value in a SaveResult record.**

76. what are two advantages of implementing the view layer of a SF application using aura component based development over VF? **A. Self-contained and reusable units of an application B. rich component ecosystem**

77. Universal containers implemented a private sharing model for the account object. A custom account search tool was developed with apex to help sales reps find accounts that match multiple criteria they specify. Since its release, users of the tool report they can see accounts they do not own. What should the developer use to enforce sharing permissions for the currently logged-in user while using the custom search tool? **Use the schema describe calls to determine if the logged-in users has access to the Account object**.

78. A developer must create a creditcardpayment class that provides an implementation of an existing payment class. **{// Some Code//}** Which is the correct implementation. **Public class creditcardpayment extends payment { public override void makepayment(decimal amount) {/*implementation*/}**

79. A developer must create a lightning component that allows users to input Contact record information to create a Contact record, including a salary__c custom field. What should the developer use, along with a lightning-record-edit form, so that Salary__c field functions as a currency input and is only viewable and editable by users that have the correct field level permissions on Salary__c? **<lightning-input-field field-name="Salary__c"> </lightning-input-field>**

80. A lightning component has a wired property, searchresults, that stores a list of opportunities. which definition of the apex method, to which the searchresults property is wired, should be used? **@Auraenabled(cacheable=true) public static list<Opportunity> search (string term) {/*implementation*/}**

81. If Apex code executes inside the execute() method of an apex class when implementing the Batchable interface, which two statements are true regarding governor limits? Choose 2 answers **A. The Apex governor limits might be higher due to the asynchronous nature of the transaction B. The Apex governor limits are reset for each iteration of the execute() method.**

82. What should be enabled for working of Scratch org? **Developer hub (Dev Hub)**

83. How many accounts will be inserted by the following block of code?

```
for(Integer i = 0 ; i < 500; i++) {
Account a = new Account(Name='New Account ' + i);
insert a;
} 0
```

84. Boolean odk;

```
Integer x;
if(abok=false;integer=x;){
X=1;
}elseif(abok=true;integer=x;){
X=2;
}elseif(abok!=null;integer=x;){
X=3;
)elseif{
X=4;}
```

X=4

85. What are the three languages used in the visualforce page? **JavaScript, CSS, HTML**

86. What are the methods used to show input in classic and lightning ? **Use visualforce page in classic and lightning component in lightning**

87. Which three code lines are required to create a Lightning component on a Visualforce page? Choose 3 answers. **A. <apex:includeLightning/> B. $Lightning.createComponent C. $Lightning.use**

88. A developer must troubleshoot to pinpoint the causes of performance issues when a custom page loads in their org. Which tool should the developer use to troubleshoot? **Developer Console**

89. Order of execution in salesforce **Validation rule, Trigger, Workflow, Process builder, Commit**

90. The following Apex method is part of the Contactservice class that is called from a trigger. Public Static Void setBusinessUnitToEMEA(Contact thisContact) { thisContact.Business_Unit__c = ‘EMEA’; update thisContact;

} How should the developer modify the code to ensure best practices are met?

Public Static void setBusinessUnitToEMEA(List<contact> contacts) {
for (contact thisContact : contacts) {
thisContact.Business_Unit__c = 'EMEA' ;
}
update contacts;
}

91. Universal Containers has as large number of custom applications that were built using a third-party JavaScript framework and exposed using Visualforce pages. The company wants to update these applications to apply styling that resembles the look and feel of Lightning Experience. What should the developer do to fulfil the business request in the quickest and most effective manner? Incorporate the salesforce Lightning Design System CSS stylesheet into the JavaScript applications

92. An approval Process is defined in the Expense_Item___c object. A business rule indicates that whenever a user changes the status to 'submitted' on an Expense_Report__c record, all the Expense_item__c records related to the expense report must enter the approval process individually. Which approach should be used to ensure the business requirement is met? **Create a process Builder on Expense_Report__c with a 'submit for approval' action type to submit all related Expense_Item__c records when the criteria is met.**

93. A developer must create an Apex class, contactController, that a Lightning component can use to search for Contact records. User of the Lightning component should only be able to search Contact records to which they have access. Which two will restrict the records correctly? **A. Public inherited sharing class ContactController. B. Public with sharing class ContactController.**

94. What is the maximum number of SOQL queries used by the following code? List<Account> aList = [SELECT Id From Account LIMIT 5] ; for (Account a : aList) { List <contact> cList = [SELECT Id From Contact WHERE AccountId = :a.Id]; }

6

95. A developer created this Apex trigger that calls MyClass.myStaticMethod: trigger myTrigger on Contact (before insert) { MyClass.myStaticMethod(trigger.new, trigger.oldMap) ; }

The developer creates a testclass with a test method that calls MyClass.myStaticMethod, resulting in 81% overall code coverage. What happens when the developer tries to deploy the trigger and two classes to production, assuming no other code exists? **The deployment fails because the Apex trigger has no code coverage**

96. What are two ways a developer can get the status of an enqueued job for a class that implements the queueable interface? **A. View the Apex Jobs page B. View the Apex Flex Queue.**

97. How does the Lightning Component framework help developers implement solutions faster? **By providing device-awareness for mobile and desktops**

98. What are two ways for a developer to execute tests in an org? **A. Tooling API B. Developer console**

99. What is a fundamental difference b/w Master-Detail relationship and Lookup relationship? **A Master-Detail relationship detail record inherits the sharing and security of its master record.**

100. A developer writes a trigger on the Account object on the before update event that increments a count field. A workflow rule also increments the count field every time an Account is created or updated. The field update in the workflow rule is configured to not to re-evaluate workflow rules. What is the value of the count field if an Account is inserted with an initial value of zero, assuming no other automation logic is implemented on the Account? **3**

101. A licensed_professional__c custom object exists in the system with two mater-detail fields for the following objects: Certification__c and Contact. Users with the 'certification representative' role can access the certification records they own and view the related licensed professional records, however, users with the sales representative role report they cannot view any licensed professional records even though they own the associated contact record. What are two likely causes of users in the 'Sales Representative' role not being able to access the licensed professional records? Choose 2 answers **A. The organization's sharing rules for Licensed_Professional__c have not finished their recalculation process. B. The organization has a private sharing model for Certification__c and Certification__c is the primary relationship in the Licensed-Professional__c object.**

102. A custom picklist field, food_preference__c, exists on a custom object. The picklist contains the following options; 'Vegan','Kosher','No Preference'. The developer must ensure a value is populated every time a record is created or updated.

What is the most efficient way to ensure a value is selected every time a record is saved? **Mark the field as required on the field definition.**

103. Which two operations can be performed using a formula field? **A. Displaying an Image based on the Opportunity Amount. B. Calculating a score on a Lead based on the information from another field.**

104. What is the order of operations when a record is saved in Salesforce? **Triggers, Workflow, Process flows, Commit**

105. What are the two ways a developer can get the status of enqueued job for a class that queueable interface? Choose 2 answers **A. View the Apex Jobs Page B. Query the AsyncApexJob object**

106. A developer must write an Apex method that will be called from a Lightning component. The method may delete an Account stored in the accountRec variable. Which method should a developer use to ensure only users that should be able to delete Accounts can successfully perform deletions? **Schema.sObjectType.Account.isDeletable()**

107. How should a developer write unit tests for a private method in an Apex class? **Use the TestVisible annotation**

108. When using SalesforceDX, what does a developer need to enable to create and manage scratch orgs? **Dev Hub**

109. In terms of MVC paradigm, what are two advantages of implementing the view layer of a Salesforce application using Aura component-based development over Visualforce? Choose 2 answers **A. Self-contained and reusable units of an application B. Rich component ecosystem**

110. What should be used to create scratch orgs? **Salesforce CLI**

111. Which two are best practices when it comes to component and application event handling? Choose 2 answers **A. Reuse the event logic in a component bundle, by putting the logic in the helper. B. Handle low-level events in the event handler and re-fire them as higher-level events**.

112. A developer must provide a custom user interface when users edit a Contact. Users must be able to use the interface in Salesforce Classic and Lightning Experience What should the developer do to provide the custom user interface?

Override the Contact's Edit button with a Visualforce page in Salesforce Classic and Lightning component in Lightning Experience.

113. A developer considers the following snippet of code: **{//Some Code//}** Based on this code, what is the value of x? 4

114. Cloud Kicks Fitness, an ISV Salesforce partner is developing a managed package application. One of the application modules allows the user to calculate body fat using the Apex class, BodyFat, and its method, calculateBodyFat(). The product owner wants to ensure this method is accessible by the consumer of the application when developing customizations outside the ISV's package namespace Which approach should a developer take to ensure calculateBodyFat() is accessible outside the package namespace? **Declare the class and method using the global access modifier**

115. A developer wrote Apex code that calls out to an external system. How should a developer write the test to provide test coverage? **Write a class that implements the HTTPCalloutMock interface.**

116. Which three web technologies can be integrated into a Visualforce page? **A. HTML B. CSS C. JavaScript**