

Question 1

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is a step in problem solving that lists the actions and states that the agent has to consider provided a goal?

- ☐ a. Goal formulation
- ☐ b. Search
- ☐ c. Problem formulation
- ☐ d. Execute

Question 2

Not yet answered

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A process is terminated by the operating system due to a reference to non-existing memory. Which one of the following best explains the process termination?

- ☐ a. Normal exit
- ☐ b. Terminated by another process
- ☐ c. Fatal exit
- ☐ d. Error exit

Question 3

Not yet answered

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 [Flag question](#)

What is the output of the following C++ fragment code?

```
int a, b;
```

```
a= 13;
```

```
b = 9;
```

```
while( (20 && 0) && (a > b) )
```

```
{
```

```
    cout<<"Plants are our life";
```

```
}
```

- ☐ a. It displays message "Plants are our life" infinitely
- ☐ b. It displays message "Plants are Our Life" 4 times
- ☐ c. No message will be displayed
- ☐ d. It displays message "Plants are our life" 20 times

Question 4

Not yet answered

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Which one of the following is not correct about POP3 and SMTP?

- ☐ a. Both are application layer protocols
- ☐ b. A sender can receive emails using POP3
- ☐ c. Both are network layer protocols
- ☐ d. A sender can send email using SMTP

Question 5

Not yet answered

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Size of large data files can be reduced to save storage disk space. Which algorithm is appropriate to reduce size of large files?

- ☐ a. Heap sort algorithm
- ☐ b. Huffman encoding algorithm
- ☐ c. Prim's algorithm
- ☐ d. Merge sort algorithm

Question 6

Not yet answered

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Advancement of operating system is closely tied to computer architectures, therefore, has passed through different generations. Which one of the following generation and advancement is wrongly coupled?

- ☐ a. First generation-> single user
- ☐ b. Third generation -> batch system
- ☐ c. Second generation -> multiprogramming
- ☐ d. Fourth generation -> real time systems

Question 7

Given input Alphabet $\Sigma = \{a, b, c, d\}$ and empty string λ . Then, which one of the following is true about Σ^* ?

- ☐ a. $\Sigma^* = \Sigma^+ \cup \{\lambda\}$
- ☐ b. $\Sigma^* = \Sigma^1 \cup \Sigma^2 \cup \Sigma^3 \cup \Sigma^4$
- ☐ c. $\Sigma^* = \{\lambda\}$
- ☐ d. $\Sigma^* = \Sigma^+$

Question 8

Not yet answered

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Which one of the following lists of environments is the hardest for an agent?

- ☐ a. Deterministic, fully observable, static
- ☐ b. Sequential, non-deterministic, dynamic
- ☐ c. Fully observable, sequential, deterministic
- ☐ d. Partially observable, static, continuous

Question 9

Not yet answered

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Which one of the following registers hold the address of the next pair of instructions to be fetched from memory?

- ☐ a. Instruction buffer register
- ☐ b. Memory address register
- ☐ c. Program counter
- ☐ d. Memory buffer register

Question 10

Not yet answered

Marked out of 1.00

 [Flag question](#)

Linked list data structure is _____ type of data structure.

- ☐ a. Dynamic data structure
- ☐ b. Non-linear data structure
- ☐ c. Static data structure
- ☐ d. Fixed size data structure

Question 11

Not yet answered

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 Flag question

Which phase of compiling process is considered as the final phase in the process?

- ☐ a. Code optimization
- ☐ b. Semantic analysis
- ☐ c. Code generation
- ☐ d. Intermediate code generation

Question 12

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following computers can be most secured compared to the rest?

- ☐ a. A computer connected to the Internet having strong intrusion detection
- ☐ b. A computer connected to the Internet and the latest anti-virus installed on it
- ☐ c. A computer connected to the Internet with the latest firewall system
- ☐ d. A computer that is not connected to the Internet

Question 13

Not yet answered

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An interface that has multiple lines connecting input/output module and peripheral device and assures multiple bits to be transferred at the same time is:

- ☐ a. Parallel interface
- ☐ b. One line interface
- ☐ c. Bus interface
- ☐ d. Serial interface

Question 14

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following best explains attackers who are motivated by financial gain and perform sabotage, an IP theft and secrets of a rival company?

- ☐ a. Activist
- ☐ b. Stealer
- ☐ c. Hacktivist
- ☐ d. Competitor

Question 15

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is responsible for separating some machines from the rest to shield them from possible attacks?

- ☐ a. Switch
- ☐ b. Network operating system
- ☐ c. Firewall
- ☐ d. Router

Question 16

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is different from the other based on its role in computer network?

- ☐ a. Network printer
- ☐ b. Routers
- ☐ c. Hubs
- ☐ d. Wireless access point

Question 17

Not yet answered

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 [Flag question](#)

Which statement is false about universal hashing technique?

- ☐ a. In universal hashing a hash function is selected randomly from set of hash functions for each key
- ☐ b. Universal hashing reduces the chance of data collision
- ☐ c. In universal hashing a hash function is selected from set of hash functions independent of keys.
- ☐ d. Single fixed hash function technique is better than universal hashing technique in terms of collision reduction

Question 18

Not yet answered

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 [Flag question](#)

What does the program data independence in the database approach entails for?

- ☐ a. Data and applications are defined separately
- ☐ b. Programs can create redundant data independently
- ☐ c. Both program and data are defined together
- ☐ d. The application may be affected when data changes

Question 19

Not yet answered

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 [Flag question](#)

Which asymptotic notation describes average case analysis?

- ☐ a. $f(n) = \text{Big-Oh}$
- ☐ b. $f(n) = \text{little-}\omega(\text{ little omega })$
- ☐ c. $f(n) = \mathbf{\Omega}(\text{ Big omega })$
- ☐ d. $f(n) = \mathbf{\theta}(\text{thetha})$

Question 20

Not yet answered

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Let a Grammar

$G = (\{S\}, \{a, b\}, S, P)$, where $\{S\}$ is set of variables, $\{a, b\}$ is set of terminal symbols, S is start variable and P is set of productions. Then which one of the following is not an element of the language (L) which is generated from G . Given:

$P : S \rightarrow aSb,$
 $S \rightarrow \lambda$

- ☐ a. λ
- ☐ b. a
- ☐ c. ab
- ☐ d. $aabb$

Question 21

Not yet answered

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 [Flag question](#)

Which concept refers to extending specialized classes from generalized classes in object-oriented programming?

- ☐ a. Overriding
- ☐ b. Overloading
- ☐ c. Inheritance
- ☐ d. Data field Encapsulation

Question 22

Not yet answered

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A computer expert would like to know the number of processes that are completed per hour to assess the performance of a machine. Therefore, which one of the following best describes the expert's assessment?

- ☐ a. Waiting time
- ☐ b. Turnaround time
- ☐ c. Response time
- ☐ d. System throughput

Question 23

Not yet answered

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 [Flag question](#)

Which one of the following is not a single level ordered index?

- ☐ a. Clustering index
- ☐ b. Secondary index
- ☐ c. Primary index
- ☐ d. Multilevel index

Question 24

Not yet answered

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 [Flag question](#)

Which one of the following is true about functions in JavaScript?

- ☐ a. Function names can begin with digits
- ☐ b. There is no limit to the number of function parameters that a function may contain
- ☐ c. Function names are not case-sensitive
- ☐ d. Function names can contain spaces

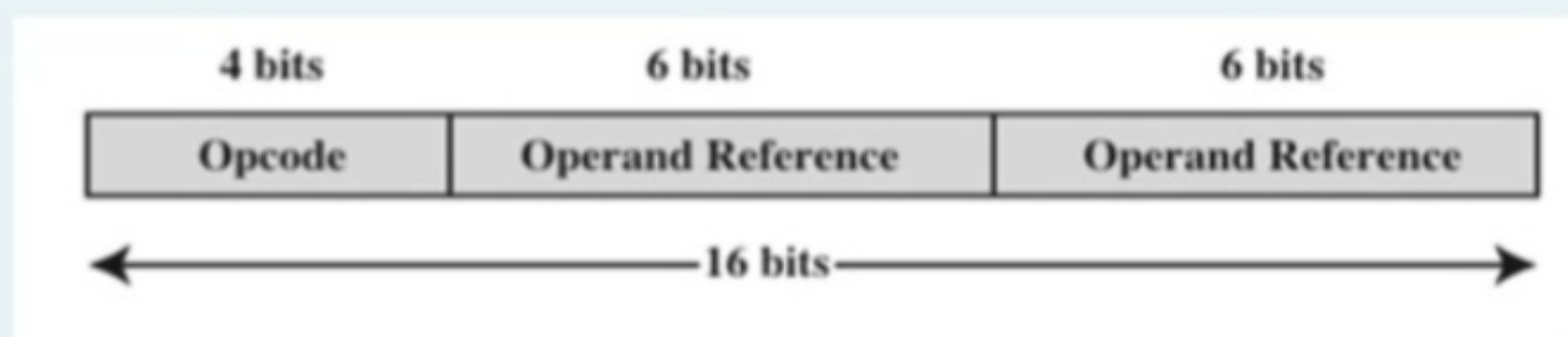
Question 25

Not yet answered

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What is the purpose of an opcode that is as indicated in the figure below?



- ☐ a. It holds the next instruction reference
- ☐ b. It determines the operation to be done
- ☐ c. It holds the destination address of an operand
- ☐ d. It holds the source address of an operand

Question 26

Not yet answered

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Which one of the following is not correct for the figure shown in Question 27?

- ☐ a. P0 is waiting for a resource held by P1
- ☐ b. P1 is waiting for a resource held by P2
- ☐ c. P2 cannot be executed until P1 finishes
- ☐ d. P3 cannot be executed until P4 finishes

Question 27

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the output of the following Java fragment code?

```
int n = 6, m = 15, p = 3;  
n -= m;  
n *= p;  
System.out.print(n);
```

- ☐ a. -27
- ☐ b. 3
- ☐ c. 27
- ☐ d. 24

Question 28

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is a measure taken, to ensure information and information systems' availability, integrity, authentication and confidentiality?

- ☐ a. Information security
- ☐ b. Interception
- ☐ c. Information assurance
- ☐ d. Wiretapping

Question 29

Not yet answered

Marked out of 1.00

 Flag question

Suppose you have received a message from your friend but the message is scrambled for the sake of security. Your friend has used a program to encode messages into scrambled text. In order to read the message which program would you use?

- ☐ a. Secret key
- ☐ b. Encryption program
- ☐ c. Decryption program
- ☐ d. Ciphertext

Question 30

Not yet answered

Marked out of 1.00

 [Flag question](#)

Suppose you have developed a self-driving car equipped with relevant sensors and camera that helps it to see the road and drive sensing traffic lights, pedestrians and signs. Its sensors are able to detect the environment but not all the aspects. Hence, in which environment is your car acting?

- ☐ a. Stochastic
- ☐ b. Discrete
- ☐ c. Partially observable
- ☐ d. Fully observable

Question 31

Not yet answered

Marked out of 1.00

 [Flag question](#)

_____ is set of attributes that can be seen by a program and can have direct impact on the logical execution of a program.

- ☐ a. Organization
- ☐ b. Arrangement
- ☐ c. Architecture
- ☐ d. Flow control

Question 32

Not yet answered

Marked out of 1.00

 [Flag question](#)

Look at the following PHP line: `$list = array(20, 12, 23, 19, 18);` What is the index of data value 19?

- ☐ a. 0
- ☐ b. 3
- ☐ c. 1
- ☐ d. 2

Question 33

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is not delimiter of PHP code?

- ☐ a. `<?php ..... ?>`
- ☐ b. `<? ..... ?>`
- ☐ c. `<caption> ..... </caption>`
- ☐ d. `<script language="PHP">
..... </script>`

Question 34

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is not an example of scripting languages?

- ☐ a. Python
- ☐ b. PHP
- ☐ c. Perl
- ☐ d. C++

Question 35

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following phases is done before semantic analysis phase of compiling process?

- ☐ a. Code generation
- ☐ b. Intermediate code generation
- ☐ c. Syntax analysis
- ☐ d. Code optimization

Question 36

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which deadlock prevention mechanisms don't require timestamp?

- ☐ a. No-wait
- ☐ b. Wait-wait
- ☐ c. Wait-die
- ☐ d. Wound-wait

Question 37

Not yet answered

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In a tree data structure, if a node has no parent node, then the node is _____.

- ☐ a. Internal node
- ☐ b. External node
- ☐ c. Root node
- ☐ d. Parent node

Question 38

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the output of the following C++ fragment code?

```
int a = 6, b = 8;
```

```
int x = 2, y = 4;
```

```
int c = (x > y ? (a--, x) : (b--, y));
```

```
cout<<"a= "<<a;
```

```
cout<<"    b= "<<b;
```

```
cout<<"    c= "<<c;
```

- ☐ a. a = 6 b = 8 c = 4
- ☐ b. a = 5 b = 8 c = 4
- ☐ c. a = 5 b = 7 c = 2
- ☐ d. a = 6 b = 7 c = 4

Question 39

Not yet answered

Marked out of 1.00

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Which one of the following is evaluating the degrees of success of an agent?

- ☐ a. Knowledge
- ☐ b. Action
- ☐ c. Performance measure
- ☐ d. Perception

Question 40

Not yet answered

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 [Flag question](#)

If you want to allow subclasses to access data fields or methods defined in the superclass, but not to allow non-subclasses to access these data fields and methods, which access modifier is appropriate?

- ☐ a. public
- ☐ b. protected
- ☐ c. private
- ☐ d. default

Question 41

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which asymptotic notation describes worst case analysis?

- ☐ a. $f(n) = \text{little-oh}$
- ☐ b. $f(n) = \mathbf{\Omega}$ (Big omega)
- ☐ c. $f(n) = \text{little- } \omega$ (little omega)
- ☐ d. $f(n) = \mathbf{\theta}$ (thetha)

Question 42

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which type of Turing machine has two tapes, one tape read-only and the other read-write tape?

- ☐ a. Multi-head Turing machine
- ☐ b. Multi-dimensional Turing machine
- ☐ c. Non-deterministic Turing machine
- ☐ d. Off-line Turing machine

Question 43

Not yet answered

Marked out of 1.00

 [Flag question](#)

Among the following, which one best describes a database management system (DBMS)?

- ☐ a. It can assist you to process document
- ☐ b. It can assist process images
- ☐ c. It is responsible for creating and maintaining a database
- ☐ d. It can help users to manage computer's activity

Question 44

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following does not show non-functional requirement of software systems?

- ☐ a. Response time
- ☐ b. Memory requirement
- ☐ c. Reliability
- ☐ d. Displaying information

Question 45

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is the smallest heading tag?

- ☐ a. `<H3>`
- ☐ b. `<H6>`
- ☐ c. `<H1>`
- ☐ d. `<H4>`

Question 46

Not yet answered

Marked out of 1.00

 [Flag question](#)

Given the schemas:BOOK (Book_id, Title, Publisher_name) BOOK_AUTHOR (Book_id, Author_name) PUBLISHER (Name, Address, Phone) Which one of the following SQL is correct to delete the publisher named as 'XWZ' from the PUBLISHER table

- ☐ a. DELETE FROM PUBLISHER WHERE Address = 'XWZ'
- ☐ b. DELETE FROM BOOK_AUTHOR WHERE Address = 'XWZ'
- ☐ c. DELETE FROM PUBLISHER WHERE Name = 'XWZ'
- ☐ d. DELETE FROM BOOK WHERE Name = 'XWZ'

Question 47

Not yet answered

Marked out of 1.00

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Which one of the following is true about frames in HTML?

- ☐ a. Frames are not difficult to handle for search engines
- ☐ b. Frames allow parts of the page to remain stationary while other parts scroll
- ☐ c. Load on the server is not affected, if there are a large number of frames in a page
- ☐ d. All browsers support frames

Question 48

Not yet answered

Marked out of 1.00

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Which statement is true about pop() operation of Stack data structures?

- ☐ a. pop() inserts new element at the beginning/bottom of stack
- ☐ b. pop() returns the end/top element but it doesn't delete that element
- ☐ c. pop() removes the end/top element from stack
- ☐ d. pop() inserts new element at the middle of stack

Question 49

Not yet answered

Marked out of 1.00

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Assume there is a line of patients waiting for a service from a clinic. Seriously sick patients should get service first. Which data structure is the most appropriate for the given type of real world problem?

- ☐ a. Tree
- ☐ b. Queue
- ☐ c. Priority Queue
- ☐ d. Stack

Question 50

Not yet answered

Marked out of 1.00

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In which situation that using database management system (DBMS) becomes costly and not recommended to use it?

- ☐ a. In situation where more than one users should access the database
- ☐ b. In embedded systems having too small storage space
- ☐ c. To control redundancy
- ☐ d. To deny access to unauthorized users

Question 51

Not yet answered

Marked out of 1.00

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Which one of the following is correct way creating String object?

- ☐ a. `String m = new String("Exit Exam");`
- ☐ b. `String m = 'Computer Science';`
- ☐ c. `String m = new String('Technology');`
- ☐ d. `String m = 'H', 'e', 'l', 'l', 'o';`

Question 52

Not yet answered

Marked out of 1.00

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Which one of the following is valid statement regarding PHP variables?

- ☐ a. `test = 5;`
- ☐ b. `$test = "This is 'Computer science'";`
- ☐ c. `$test = "Computer;`
- ☐ d. `$test = 9.5`

Question 53

Not yet answered

Marked out of 1.00

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Which one of the following is a security service enforced to protect disclosure of information, which can be stored in file or being on transmission, from unauthorized entities?

- ☐ a. Integrity
- ☐ b. Availability
- ☐ c. Authentication
- ☐ d. Confidentiality

Question 54

Not yet answered

Marked out of 1.00

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Which one is a method used to obtain the meaning of encrypted information without access to secret key?

- ☐ a. Encryption
- ☐ b. Decryption
- ☐ c. Crypto-analysis
- ☐ d. Cryptography

Question 55

Not yet answered

Marked out of 1.00

🚩 Flag question

58. Which network security issue shows the level of weakness in networks and devices?

- ☐ a. Treat
- ☐ b. Attack
- ☐ c. Availability
- ☐ d. Vulnerability

Question 56

Not yet answered

Marked out of 1.00

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After deep analysis if your software requires major change to the architecture of the system, which strategy of software change should be applied?

- ☐ a. Software maintenance
- ☐ b. Architectural transformation
- ☐ c. Software reengineering
- ☐ d. Preventative maintenance

Question 57

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which type of variable can be accessed through out our C++ program scope?

- ☐ a. Local
- ☐ b. Static
- ☐ c. Automatic
- ☐ d. Global

Question 58

Not yet answered

Marked out of 1.00

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Which phase of software development process refers to modification of software to reflect changing customer and market requirements?

- ☐ a. Evolution
- ☐ b. Specification
- ☐ c. Validation
- ☐ d. Development

Question 59

Not yet answered

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Which quantifier can be used for some portion of the universe?

☐ a. $\rightarrow$

☐ b. $\forall$

☐ c. $\exists$

☐ d. $\wedge$

Question 60

Not yet answered

Marked out of 1.00

 [Flag question](#)

Among phases of compiling process, in which phase a sequence of characters are converted into a sequence of tokens?

- ☐ a. Lexical analysis
- ☐ b. Semantic analysis
- ☐ c. Code optimization
- ☐ d. Syntax analysis

Question 61

Not yet answered

Marked out of 1.00

🚩 Flag question

For an input graph, Depth First Traversal algorithm uses _____ data structure to traverse.

- ☐ a. Stack
- ☐ b. Queue
- ☐ c. Tree
- ☐ d. Priority queue

Question 62

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is not correct about packet and circuit switching?

- ☐ a. In Packet switching and end-to-end connection has to be established
- ☐ b. In circuit switching a channel is dedicatedly used
- ☐ c. In packets switching messages are sent in small blocks
- ☐ d. Packet switching is more efficient than circuit switching

Question 63

Not yet answered

Marked out of 1.00

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Which one of the following is correct for the statement below? “A problem that occurs when one transaction updates a database item and then the transaction fails for some reason and the updated item is accessed by another transaction before it is changed back to its original value”

- ☐ a. It is an incorrect summary problem
- ☐ b. It is a lost update problem
- ☐ c. It is dirty read
- ☐ d. It is a temporary read problem

Question 64

Not yet answered

Marked out of 1.00

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Suppose you are administering a network and would like to know whether a computer in the upstairs is connected to the network or not. Therefore, which command would you use?

- ☐ a. ping
- ☐ b. traceroute
- ☐ c. DHCP discover
- ☐ d. nslookup

Question 65

Not yet answered

Marked out of 1.00

 [Flag question](#)

What will be the output of the following JavaScript statement? `Math.sqrt(36)`

- ☐ a. 1
- ☐ b. 36
- ☐ c. 30
- ☐ d. 6

Question 66

Not yet answered

Marked out of 1.00

 [Flag question](#)

What will be the output of the following JavaScript statement? `Math.floor(5.9)`

- ☐ a. 5
- ☐ b. 6
- ☐ c. 9
- ☐ d. 11.8

Question 67

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is asynchronous in message communication?

- ☐ a. Direct message
- ☐ b. Non-block receive
- ☐ c. Blocking receive
- ☐ d. Blocking send

Question 68

Not yet answered

Marked out of 1.00

 [Flag question](#)

Given input Alphabet $\Sigma = \{a, b, c, d\}$ and empty string λ . Then, which one of the following is equivalent to Σ^0 ??

- ☐ a. $\{\lambda\}$
- ☐ b. Σ^+
- ☐ c. Σ^*
- ☐ d. Σ

Question 69

Not yet answered

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 [Flag question](#)

A university owns a number of private local area and wide area networks, which are designed for an access by its academic staff, students and administrative workers. Which term best describes the University's network?

- ☐ a. Wide Area Network
- ☐ b. Metropolitan Area Network
- ☐ c. The Internet
- ☐ d. Local Area Network

Question 70

Not yet answered

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 [Flag question](#)

Assume you have a universe of Key U . Which one is false statement regarding Direct Address table and Hash Table data structures?

- ☐ a. If universe U is very large, Hash table is better than Direct Address table
- ☐ b. There is one to one correspondence between keys in the universe U and memory slots in the Direct Address table
- ☐ c. Hash table allocates one separate memory slot for each key in the universe U
- ☐ d. Direct Address table doesn't use hash function to map keys

Question 71

Not yet answered

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 [Flag question](#)

Assume you make modification to your software. Then you want to make sure that the modification has not had introduced new errors. Which software testing level is required?

- ☐ a. Dynamic testing
- ☐ b. Static testing
- ☐ c. Beta testing
- ☐ d. Regression testing

Question 72

Not yet answered

Marked out of 1.00

 Flag question

Which one of the following is false about String in Java?

- ☐ a. We can create a String object using String literal
- ☐ b. In Java a string is treated as object
- ☐ c. We can create a String object using array of characters
- ☐ d. Content of a string can be changed once the string is created

Question 73

Not yet answered

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A database management system (DBMS) has_____ to control locks.

- ☐ a. Query optimizer
- ☐ b. Lock table
- ☐ c. Lock manager
- ☐ d. Query processor

Question 74

Not yet answered

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Which one of the following is not true about fan trap in Entity Relationship Diagram?

- ☐ a. When there is ambiguous pathway between some entity occurrences in related entity types
- ☐ b. Highly likely exist when more than two one-to-many relationships fan out from an entity
- ☐ c. It occurs when there is no pathway between related entities
- ☐ d. It can be resolved by readjusting the model so that no one-to-many relationships fanning out from an entity

Question 75

Not yet answered

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 [Flag question](#)

Which one of the following is not correct about transaction failure?

- ☐ a. Transactions fail if logical errors are detected
- ☐ b. Concurrency control enforcement avoids transaction failure
- ☐ c. Catastrophes can be cause of transaction failure
- ☐ d. Transactions fail if disk blocks lose their data

Question 76

Not yet answered

Marked out of 1.00

 [Flag question](#)

Consider the following fragment of C++ code:

```
const int x = 8;  
const int y = 16;  
if(x > y)  
{  
    int z = x + y;  
}
```

For codes like the above one, which te

- ☐ a. Code motion
- ☐ b. Compile time evaluation
- ☐ c. Arithmetic simplification
- ☐ d. Dead code elimination

Question 77

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which network type is the largest as compared to the rest?

- ☐ a. Wide Area Network
- ☐ b. Metropolitan Area Network
- ☐ c. The Internet
- ☐ d. Local Area Network

Question 78

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is correct about human role in system administration?

- ☐ a. Ethics is not a requirement to manage computers
- ☐ b. It requires patience, understanding and knowledge
- ☐ c. System administrator is not expected to have skills and confidence
- ☐ d. It doesn't need organizational skills

Question 79

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the output of the following fragment C++ code?

```
for(int n = 1; n <= 18; n = n + 2)
{
    if(n % 7 != 0)
        cout<<n<<" ";
    else
        break;
}
```

- ☐ a. 1 3 5
- ☐ b. 1 2 3 4 5 6
- ☐ c. 3 5 7
- ☐ d. 1 3 5 7 9 11 13 15 17

Question 80

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is not correct about computer architecture and organization?

- ☐ a. An architecture can remain for long time but its organization can change
- ☐ b. An architecture can be used for long time encompassing different computer models
- ☐ c. An organization can last for long time as an architecture does
- ☐ d. Manufacturers offer computer with same architecture but different organization

Question 81

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which layer uses port number to identify applications?

- ☐ a. Application layer
- ☐ b. Physical layer
- ☐ c. Network layer
- ☐ d. Transport layer

Question 82

Not yet answered

Marked out of 1.00

 [Flag question](#)

Assume you have a weighted graph G with a set of vertices V and set of edges E . Which one of the following problem is an optimization problem on the graph?

- ☐ a. Traverse all vertices in graph G
- ☐ b. How many cycles are there in graph G
- ☐ c. Find minimum spanning tree from graph G
- ☐ d. Is vertex $p \in V$ reachable from vertex $q \in V$ in graph G

Question 83

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is correct for the statement below? When two transactions that access the same database items have their operations interleaved in a way that makes the value of some database item incorrect”

- ☐ a. It is a dirty read problem
- ☐ b. It is an incorrect summary problem
- ☐ c. It is a lost update problem
- ☐ d. It is a temporary read problem

Question 84

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the time complexity order of binary searching algorithm?

- ☐ a. $O(\log_2 n)$
- ☐ b. $O(1)$
- ☐ c. $O(n)$
- ☐ d. $O(n^3)$

Question 85

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is true about java and javascript?

- ☐ a. Both are object oriented languages
- ☐ b. Javascript can be used in extremely sophisticated applications
- ☐ c. There are more features in javascript than java
- ☐ d. Javascript is compiled and interpreted in source code form

Question 86

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is a two-level cache having an internal and external caches?

- ☐ a. Split cache
- ☐ b. Single level cache
- ☐ c. Multilevel cache
- ☐ d. Unified cache

Question 87

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is not correct about threads?

- ☐ a. Threads have registers to hold its working memory
- ☐ b. Threads are the entities schedule for execution on the CPU
- ☐ c. It is a group of processes
- ☐ d. Threads have program counters

Question 88

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is used for the purpose of syntax analysis?

- ☐ a. Scanner
- ☐ b. Parser
- ☐ c. Linker
- ☐ d. Loader

Question 89

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which statement is false about programming language generations?

- ☐ a. Assembly language is machine independent
- ☐ b. Fifth generation programming languages need very powerful hardware and software
- ☐ c. Machine language can be executed without translation
- ☐ d. Assembly language should be translated to machine language before execution

Question 90

Not yet answered

Marked out of 1.00

 [Flag question](#)

At which layer of the OSI model devices such as bridges, switches and Network Interface cards are used?

- ☐ a. Application layer
- ☐ b. Physical layer
- ☐ c. Network layer
- ☐ d. Data link layer

Question 91

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following algorithms can be used to extract Minimum Spanning Tree from an input graph?

- ☐ a. Merge sort algorithm
- ☐ b. Huffman encoding algorithm
- ☐ c. Prim's algorithm
- ☐ d. Dijkstra's algorithm

Question 92

Not yet answered

Marked out of 1.00

 [Flag question](#)

_____ is a network architecture characteristics that states a network can expand quickly to address needs of new users and application without having impact on the services delivered to existing users.

- ☐ a. Security
- ☐ b. Quality of service
- ☐ c. Scalability
- ☐ d. Fault tolerance

Question 93

Not yet answered

Marked out of 1.00

 [Flag question](#)

If you plan a software test to be done by clients to demonstrate that the system satisfies their requirements, which phase of software testing is appropriate?

- ☐ a. System testing
- ☐ b. Integration testing
- ☐ c. Unit testing
- ☐ d. Acceptance testing

Question 94

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is false about project planning stage?

- ☐ a. Preparing time schedule is done during project planning
- ☐ b. Cost estimation is done during project planning
- ☐ c. Project planning is a one-time task in software development life cycle
- ☐ d. Risk analysis is done during project planning

Question 95

Not yet answered

Marked out of 1.00

 [Flag question](#)

_____ is the whole thing that an agent has observed so far concerning the existing scenario in the environment.

- ☐ a. Perception
- ☐ b. Performance measure
- ☐ c. Action
- ☐ d. Knowledge

Question 96

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the output of the following Java fragment code?

```
int[] list = new int[4];
int sum = 0;
for(int i = 0; i < list.length; i++)
{
    list[i] = i*3;
    sum += list[i];
}
System.out.print(sum);
```

- ☐ a. 3
- ☐ b. 6
- ☐ c. 18
- ☐ d. 36

Question 97

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the time complexity order of Quick sort algorithm?

- ☐ a. $O(n^2)$
- ☐ b. $O(2^n)$
- ☐ c. $O(n \log_2 n)$
- ☐ d. $O(n)$

Question 98

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of data updates best describes the following statement? “All modified data items in the cache is written either after transaction ends its execution or after a pre-determined number of transactions have concluded their execution”

- ☐ a. In-place update
- ☐ b. Shadow update
- ☐ c. Immediate update
- ☐ d. Deferred update

Question 99

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which branch of study deals with whether a problem can be solved at all or not, regardless of the resources required?

- ☐ a. Automata theory
- ☐ b. Set theory
- ☐ c. Complexity theory
- ☐ d. Computability theory

Question 100

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following is false about arrays in C++?

- ☐ a. Size of an array should be constant at the time of array declaration
- ☐ b. An array is a collection of similar data objects
- ☐ c. We can access elements of arrays without using index number
- ☐ d. We use [] square bracket at the time of array declaration