CS101 All Past Papers Subjective Solved Questions By WAJID MALIK WAJID4ME@GMAIL.COM

Question No: 27 (Marks: 2) What is Deterministic Algorithm? **Deterministic Algorithm (1)** An algorithm whose behavior can be completely predicted from the inputs That is, each time a certain set of input is presented, the algorithm gives the same results as any other time the set of input is presented. **Greedy Algorithm** An algorithm that always takes the best immediate, or local solution while finding an Answer Greedy algorithms may find the overall or globally optimal solution for some optimization problems, but may find less-than-optimal solutions for some instances of other problems KEY ADVANTAGE: Greedy algorithms are usually faster, since they don't consider the details of possible alternatives **Greedy Algorithm: Counter Example** During one of the international cricket tournaments, one of the teams intentionally lost a match, so that they could qualify for the next round If they had won that particular match, some other team would have qualified This is an example of a non-greedy algorithm **Greedy Algorithm: Example** A skier skiing downhill on a mountain wants to get to the bottom as quickly as possible What sort of an algorithm should the skier be using? The greedy-algorithm approach will be to always have the skies pointed towards the largest downhill slope (*dy*/*dx*), at all times What is the problem with that approach? In what situations that will be the best algorithm? In which situations would it perform poorly? **16.7 Deterministic Algorithm (1)** An algorithm whose behavior can be completely predicted from the inputs That is, each time a certain set of input is presented, the algorithm gives the same results as any other time the set of input is presented. **16.8 Randomized Algorithm (1)** Any algorithm whose behavior is not only determined by the input, but also values produced by a random number generator These algorithms are often simpler and more efficient than deterministic algorithms for the same problem Simpler algorithms have the advantages of being easier to analyze and implement. **16.9 Randomized Algorithm (2)** These algorithm work for all practical purposes but have a theoretical chance of being wrong: Either in the form of incorrect results Or in the form of impractically long running time Example: Monte Carlo algorithms. **16.10 Deterministic Algorithm (2)** There can be degrees of deterministic behavior: an algorithm that also uses a random number generator might not be considered deterministic However, if the "random numbers" come from a pseudo-random number generator, the behavior may be deterministic Most computing environments offer a “pseudo random number generators,” therefore, most randomized algorithms, in practice, behave deterministically! **Question No: 28 (Marks: 2)** What is internet? **Internet** Enables users located at far-way locations to easily share information with others located all over the world Enables users to easily and inexpensively communicate with others located all over the world Enables the users to operate and run programs on computers located all over the world The Internet is unlike any previous human invention. It is a world-wide resource accessible to all of the humankind. **Question No: 29 (Marks: 2)** In JavaScript, what is event handling? What are the two types of events? Special-purpose functions that come predefined with JavaScript They are *unusual* in the sense that they are mostly called from the HTML part of a Web page and not the <SCRIPT> ... </SCRIPT> part What is Event Handling? Capturing events and responding to them The system sends events to the program and the program responds to them as they arrive Events can include things a user does - like clicking the mouse - or things that the system itself does - like updating the clock. Today we will exclusively focus on user-events **onFocus & onBlur Question No: 30 (Marks: 2)** What is the error in the following JavaScript statement? student=new

array(10); **Question No: 31 (Marks: 3)** Briefly mention any three problems in old modes of presentation development 1. Difficult to present **2.** Difficult o modify prepared presentation **3.** No electronically sharing at all **4.** Multimedia files were not included **Question No: 32 (Marks: 3)** Differentiate between onFocus and onBlur. **onFocus & onBlur:** onFocus executes the specified JavaScript code when a window receives focus or when a form element receives input focus onBlur executes the specified JavaScript code when a window loses focus or a form element loses focus **Question No: 33 (Marks: 3)** How many types of errors can be found during a program developement? List them. **Question No: 34 (Marks: 5)** any five issues of Data Management. **Issues in Data Management:** Data entry Data updates Data integrity Data security Data accessibility **Data Entry:** New titles are added every day New customers are being added every day Some of the above *may* require manual entry of new data into the computer systems That new data needs to be added accurately That can be achieved, for one, by user-interfaces that prevent the input of invalid data **Data Updates :** Old titles are deleted on a regular basis Inventory changes every instant Book prices change Shipping costs change Customers' personal data change Various discount schemes are always commencing and concluding All those actions require updates to existing data Those changes need to be entered accurately That can also be achieved by user-interfaces that prevent the input of invalid data **Data Security :** All the data that BholiBooks has in its computer systems is quite critical to its operation The security of the customers' personal data is of utmost importance. Hackers are always looking for that type of data, especially for credit card numbers Enough leaks of that type, and customers will stop doing business with BholiBooks access to authorized persons/computers only Security can also be improved through: Encryption Private or virtual-private networks Firewalls Intrusion detectors Virus detectors **Data Integrity:** Integrity refers to maintaining the correctness and consistency of the data Correctness: Free from errors Consistency: No conflict among related data items Integrity can be compromised in many ways: Typing errors Transmission errors Hardware malfunctions Program bugs Viruses Fire, flood, etc. **Ensuring Data Integrity:** Type Integrity is implemented by specifying the type of a data item: Example: A credit card number consists of 12 digits. An update attempting to assign a value with more or fewer digits or one including a non-numeral should be rejected Limit Integrity is enforced by limiting the values of data items to specified ranges to prevent illegal values Example: Age of person should not be negative Referential Integrity requires that an item referenced by the data for some other item must itself exist in the database Example: If an airline reservation is requested for a particular flight, then the corresponding flight number must actually exist Physical Integrity is ensured through hardware redundancy, backups, etc **Data Accessibility:** If the transaction and inventory data is placed in a disorganized fashion on a hard disk, it becomes very difficult to later search for a stored data item What is required is that: Data be stored in an organized manner Additional info about the data be storedso that the data access times are minimized What if two customers check on the aavailability of a certain title simultaneously? On seeing its availability, they both order the title – for which, unfortunately, only a single copy is available Same is the case when two airline customers try booking the only available seat A solution to this *concurrency control* problem: Lock access to data while someone is using it We can write our own SW that can take care of all the issues that we just discussed OR We can save ourselves lots of time, cost, and effort by buying ourselves a Database Management System (DBMS) that takes care of most, if not all, of the issues **Question No: 35 (Marks: 5)** Define Information Technology. What are the important components of Information Technology? (2+3) The group of technologies concerned with the capture, processing and transmission of information in the digital-

electronic form Telecom Engineering Computer Engineering Computer Science Software Engineering **Question No: 36 (Marks: 5)** Explain function arguments with the help of an example? **Question No: 27 (Marks: 2)** What is output of the following JavaScript code ? Str="Virtual University of Pakistan"; document.write(str.substring(5,str.length)) ; Virtual University of Pakistan **Question No: 28 (Marks: 2)** Write HTML format to include gif and jpg images in a web page. <IMG src=URL, alt=text height=pixels width=pixels align="bottom|middle|top"> **Question No: 29 (Marks: 2)** What is Harvard Mark 1? Havard mark one is the name of computer,used by us navy and it is control by pre punch paper tape and its all output was displayed on a electronic type writer **Question No: 30 (Marks: 2) Why we need arrays in JavaScript? Question No: 31 (Marks: 3)** Who is a Computing Professional? A computer professional is a person who involved in the maintenance and development of computer software and hardware. it can be computer engineer, telecom engineer or software engineer **Question No: 32 (Marks: 3)** Differentiate between onLoad and onUnload In onload when a new document is load into a window On load execute the specified JavaScript code on the other hand in on unload when user exit the document On unload executes the specified JavaScript code **Question No: 33 (Marks: 3)**

Diffentiate Local and Global Variables. **Local Variables** Declaring variables (using the var keyword) within a function, makes them *local*•They are available only within the function and hold no meaning outside of it **Global Variables** All other variables used in a Web page (or window) are *global* They can be manipulated from the main code as well as from any of the functions They include: –All variables declared in the main code –All variables used but not declared in the main code –All variables used but not declared in any of the functions defined on the Web page (or window) Global variable and Local variable- A) Global variables once declared they can be used any where in the program i.e. even in many functions. If possible u can use the global variables in the different user defined header files as like in packages in java. On the other hand global variables values can be changed programmatically local variables are local to a functional and cant be used beyond that function. 2)Static variable and Global variable ? Static variables once declared they remain the same in the entireprogram. and those values cant be changed programatically. global variables: check above description.

1. Write a note on other virus like programs (10)

Answer:

Other Virus-Like Programs

- There are other computer programs that are similar to viruses in some ways but different in some others
- Three types:
  - Trojan horses
  - Logic- or time-bombs
  - Worms

Trojan Horses

- Unlike viruses, they are stand-alone programs
- The look like what they are not
- They appear to be something interesting and harmless (e.g. a game) but when they are executed, destruction results

Logic- or Time-Bombs

- It executes its payload when a predetermined event occurs
- Example events:
- A particular word or phrase is typed
– A particular date or time is reached

Worms

- Harmless in the sense that they only make copies of themselves on the infected computer
- Harmful in the sense that it can use up available computer resources (i.e. memory, storage, processing), making it slow or even completely useless

Designing, writing, or propagating malicious code or participating in any of the fore-mentioned activities can result in criminal prosecution, which in turn, may lead to jail terms and fines!

2. What is holographic storage? (2 marks)

Answer:

Holographic storage:

Holographic data storage is a potential replacement technology in the area of high-capacity data storage currently dominated by magnetic and conventional optical data storage.

3. What is semantic web and how is it different from normal web? (2 marks)

Answer:

Symantec Web:

The Semantic Web is the future generation in WWW technology. It envisages information from diverse sources being easily combined and used in profoundly different and more powerful ways.

4. Write the types of computer networks? (2 marks)

Answer:

Types of Computer Networks according to the network access policy

- Private
- Public

5. What are structured vector graphics? (3 marks)

Answer:

Structured Vector Graphics

- New format; may become more popular than Flash
- Plug-in required
- Text-file storage; search engine friendly

6. What is in line java script event handling? (5 marks)

Answer:

In-Line JavaScript Event Handling:

Event handlers are placed in the BODY portion of a Web page as attributes of HTML Tags

The event handler attribute consists of 3 parts:

The identifier of the event handler

The equal sign
A string consisting of JavaScript statements enclosed in double or single quotes
Multiple JavaScript statements (separated by semicolons) can be placed in that string, but
All have to fit in a single line; no new line characters are allowed in that string
Due to this limitation, sophisticated event handling is not possible with in-line event
Handling

Ppaer#2 CS101 (Solved)

1. Define the term 3D Rendering? (2 marks)

Answer:

3D Rendering:

The process of converting information about 3D objects into a bit map that can be displayed on a 2D computer display
Computationally, very expensive!
Steps:
Draw the wire-frame (skeleton, made with thin lines)
Fill with colors, textures, patterns
Add lighting effects (reflections shadows)

2. What is an intelligent system? (2 marks)

Answer:

Intelligent system:

SW programs or SW/HW systems designed to perform complex tasks employing strategies that mimic some aspect of human thought.

3. What is a compiler? Write its one benefit over interpreter? (5 marks)

Answer:

Compiler:

Compiler translates the program written in a HLL in one go. The translated code is then used by the up whenever the program needs to be run.

To run a program you've written, e.g. in JAVA, it must first be translated into machine code so the computer can read it. This is what compilers and interpreters do.
However, compilers convert the code all at once, save it, and then run it; whereas interpreters translate the code one line at a time, as it is run.
Interpreters tend to result in faster translating of code so they are used mostly for debugging. This is because if you used a compiler, you'd have to re-compile your entire project every time you changed one little thing.

4. Who is a computing professional? (3 marks)

Answer:

Computing professional

• Computer scientists, software engineers, computer engineers, and some of the Telecom engineers are generally classified as computing professionals

5. What are Trojan Horses? (3 marks)

Answer:

Trojan Horses

- Unlike viruses, they are stand-alone programs
- The look like what they are not
- They appear to be something interesting and harmless (e.g. a game) but when they are executed, destruction results

6. What is ICMP? (3 marks)

Answer:

ICMP stands for Internet Control Message Protocol.

7. What is ARPANET and who developed it? (5 marks)

Answer:

The **Advanced Research Projects Agency Network** (**ARPANET**), was the world's first operational packet switching network and the core network of a set that came to compose the global Internet. The network was created by a small research team at the Massachusetts Institute of Technology and the Defense Advanced Research Projects Agency (DARPA) of the United States Department of Defense. The packet switching of the ARPANET was based on designs by Lawrence Roberts of the Lincoln Laboratory.

8. Write down the advantages of Natural Language Processing. (5 marks)

Answer:

If your question is more specifically about prolog vs the more commonly seen OO languages I would argue that you're really comparing apples to oranges - the "advantage" (such as it is) is just a different way of thinking about the world, and sometimes changing the way you ask a question provides a better tool for solving a problem.

CS101 Final Paper#3 (Solved)

1. What is meant by universal access of internet services? (2 marks)

Answer:

Universal access of internet services means same functionality to every one.

2. How can we include images in a web page using HTML and Java script?

(3 marks)

Answer:

Images in HTML

It is quite straight forward to include gif and jpg images in an HTML webpage using the <IMG> tag.

Format: <IMG src=URL, alt=text height=pixels width=pixels align="bottom/middle/top">

Images in Java script

Images in java script can be manipulated in many ways using the built in object image.
Properties: name,border,complete,height,width,hspace,bspace,lowsrc,src
Methods: none
Event handler: on Abort, on error, on load etc.

3. Define Primary key and Queries? (3 marks)

Answer:

Primary Key

Primary key is a field that uniquely identifies each record stored in a table.

Queries

Queries are used to view, change, and analyze data. They can be used to combine data from different table and extract the exact data that is desired.

4. What is a compound condition? Give example. (3 marks)

Answer:

Compound condition is putting multiple statements at places where java script expects only one for those situations. This is done simply by enclosing any numbers of statements within curly braces, for example

```
 {If ((day == "Sunday") // (day == "Saturday"))
(Bhola = "cool";
Mood = "great";
Clothing = "casual";}
```

5. Differentiate between For and While loop by writing the syntax of both loops.

(5 marks)

Answer:

The only difference between FOR loop and WHILE loop is the syntax for defining them. There is no performance difference at all.

Syntax of both loops

```
For( x = 99 ; x < 6000 : x = x + 1)
{ document . write (x) :}
```

```
While (tanks full == false )
{ tank = tank + bucket : }
Document. write ("tank is full now");
```

6. Can a human doctor be replaced by an Expert System? Give reasons to support your answer. (5 marks)

Answer:

Yes, a human doctor can be replaced by an expert system because systems that, in some limited sense, can replace an expert. Expert system can act as intelligent assistant to human experts or serve as a resource to people who may not have access to expert. And also the purpose of all application (expert system) is not to replace our human experts but to make their knowledge and experience more widely available.

7. How education is changed because of advancements in the field of computing? (10 marks)

Answer:

1. Distance learning has received a boost due to the low price of internet and the

availability of web based interactive content.

2. Physical location is less of a hindrance now.
3. It has also become possible for students to interact with other students as well as teachers situated along distance from them.
4. Students enrolled in distance education programs have more control over what they want to learn, how and when they want to learn.
5. The lack of face to face interaction and immediate questions and answers reduce the amount of knowledge that can be transferred from the teacher to the students.
6. Computer based distance education may be the only source of high quality education for many, especially those in remote locations.
7. Distance education is the best mode of education and convenient, which has become more effective with the augmentation of computer based learning.
8. Distance learning is also world most important education system by which we can study at home and manage or get our study materials online.
9. Also Distance learning allows us to refer online quizzes, assignments timely.
10. By this field of computing one can get billions of knowledge by searching through internet.

CS101 Paper#4 (solved)

1. What does NIC stand for? (1 mark)

Answer:

NIC stands for National Identity Card.

2. Name any software which can be used to make a presentation. (1 mark)

Answer:

Presentation Development SW is used to make a presentation.

3. How does a JavaScript array are heterogeneous? (2 marks)

Answer:

JavaScript Arrays are Heterogeneous

Unlike many other popular languages, a JavaScript Array can hold elements of multiple Data types, simultaneously

```
a = new Array (9);
b = new Array (13);
b [ 0 ] = 23.7 ;
b [1 ] = “Bhola Continental Hotel” ;
```


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```
b [ 2 ] = a ;
```

4. What is the database? (2 marks)

Answer:

Database:

A collection of data organized in such a fashion that the computer can quickly search for a desired data item

All data items in it are generally related to each other and share a single domain
They allow for easy manipulation of the data
They are designed for easy modification & reorganization of the information they contain
They generally consist of a collection of interrelated computer files.

5. Differentiate between LAN and WAN with one example of each. (3 marks)

Answer:

LAN	WAN
A network of computers located in the same building or a handful of nearby buildings.	A network in which computers are separated by great distances, typically across cities or even continents May consist of several interconnected LANs
Example: Computer network at your PVC	Example: The network connecting the ATM of a bank located in various cities

6. What are Trojan Horses? (3 marks)

Answer:

Trojan Horses

- Unlike viruses, they are stand-alone programs
- The look like what they are not
- They appear to be something interesting and harmless (e.g. a game) but when they are executed, destruction results

7. What do you mean by FTP or File Transfer Protocol? (3 marks)

Answer:

File Transfer Protocol (FTP), a standard Internet protocol, is the simplest way to exchange files between computers on the Internet. Like the Hypertext Transfer Protocol (HTTP), which transfers displayable Web pages and related files, and the Simple Mail Transfer Protocol (SMTP), which transfers e-mail, FTP is an application protocol that uses the Internet's TCP/IP protocols. FTP is commonly used to transfer Web page files from their creator to the computer that acts as their server for everyone on the Internet. It's also commonly used to download programs and other files to your computer from other servers.

8. What are the responsibilities and profile of a Team Lead? (5 marks)

Answer:

Team Lead

• Responsibilities:

– Planning and tracking of the project
– Detailed design
– Professional development of team members
– In case of small teams, development activities

• **Profile:**
– 5+ years of development experience
– Excellent interpersonal skills
– Good planning skills
– Good design skills

9. Is tabular data storage better than flat file data storage?
Answer:

Yes tabular data storage is better than flat file data storage

CS101 Paper#5 (Solved)

1. What are Local or Function-level Variables? (1 MARK)
Answer:

In computer science, a **local variable** is a variable that is given *local scope*. Such a variable is accessible only from the function or block in which it is declared. In programming languages with only two levels of visibility, local variables are contrasted with global variables, on the other hand, many ALGOL-derived languages allow any number of levels of nested functions with private variables, functions, constants and types hidden within them.

2. What is a function? Give one example. (2 marks)
Answer:

User Define Functions are used to define its own T-Sql
Function which can have 0 or more input parameters and
Returns a single scalar data value type or table data type.
We have three type of UDF:-

1. Scalar user defined function
2. Inline table valued Function
3. Multiple table valued function

3. What is the Data Normalization? Also define its goal. (2 marks)
Answer:

Data normalization is to sort out complex data into simple form. It uses to simplify the complex information to make it more user-friendly.

4. What is the preferred organizational structure for the organization? (3 marks)
Answer:

Preferred Organizational Structure for organization is hierarchal. Where there is different departments interconnected with each other and are been divided according to the functions they perform.

5. Differentiate Local and Global Variables. (3 marks)

Answer:

Local variables are the variables have limited scope while global have bigger scope

Local variables are not accessed by others while global is accessible to every one

Local variable used by single user while global variable can be used by different users at time from all around.

6. Elaborate Vector or Object oriented graphics with at least one example. (3 marks)

Answer:

Object Oriented Graphics are the graphics which are generally oriented towards the objects and have good quality to portray objects these graphics are object oriented and use in animation, games and movies as well.

7. How DoS attack is a cyber crime? For what cyber crime can be used? (5 marks)

Answer:

DoS stands for Decline of Service and it is a cyber crime as it jams and in some cases shut down the targeted computer by sending too much unnecessary data packets to it which ultimately exceeds the normal processing eventually results the computer or server to stuck and unable to provide services to others. It can be used to destroy the fame and diminishing of no of users requesting information and services from that particular server or computer.

CS101 Paper#6 (Solved)

1. What are the elements of website design? Any one (1 mark)

Answer:

Elements of webdesign: There are in 3 elements of web design and below are there names:

1. Navigation scheme
2. Overall look and feel
3. Layout of information

2. What kind of information can be stored in a database ? (2 marks)

Answer:

- **Numbers, Booleans, text**
- **Sounds**
- **Images**
- **Video**

3. Why hub is used in networks? (2 marks)

Answer:

HUB: Hub is networking component which can be used to connect the networks and it can also be used to extend the size of networks.

Simply it can be explained as a common connection point for devices in a network. It contains multiple ports like 8port, 16 port , 23 port hubs

4. Write names of the DoS attack's phases? (2 marks)

Answer:

DoS (Denail of service): DoS attach has in total 3 phases and below they are listed:

1. **Search**
2. **Arm**
3. **Attack**

5. What do you mean by FTP or File Transfer Protocol? (3 marks)

Answer:

FTP: File transfer protocol was first introduced in 1973; it standardized the transfer of files between computers on a TCP/IP network (e.g internet).

It can download or upload files to a remote computer using the FTP protocol **Operations performed using FTP:**

1. List, change, create folders on a remote computer
2. Upload and download files

Usage: Transferring Web content from the developer's PC to the Web server

6. How many types of errors can be found during a program development? List them. (3 marks)

Answer:

1. Syntax errors
2. Semantic errors
3. Run-time errors

7. Why the number of temporary workers is on the rise? Discuss main reasons? (5 marks)

Answer:

Temporary workers:

Temporary workers are those workers which a company can hire to perform a certain task with in a defined time period.

Temporary workers are mostly consultants which move organization to organization to perform assigned workers.

Reasons:

1. Now-a-days; whole world is suffering from financial crisis, most of the companies have frozen there hiring, just in case they need a resource they are looking for a temporary worker for a specified time span to perform a specialized task and they just pay him for that period of time.

2. Temporary workers are mostly consultants which have expertise in a certain field and they are considered specialists in that field.
3. Employer doesn't need to train the temporary worker.

8. Define network organization? What are important features of network organization? (4+6)

Answer:

Network Organization :

Network organization is an interfirm organization that is characterized by organic or informal social systems. A company or group of companies that has a minimum of formal structures and relies instead on the formation and dissolution of teams to meet specific objectives..

Features of Network Organization:

1. The organizations are learning that business can be done in a more effective manner if emphasis is placed upon cooperation, shared responsibility and networking:
    - Within the organization
    - And also with their customers and suppliers
2. Changes according to the demand of the times
3. Works effectively to meet the business goals of the organization
4. Everyone has a feeling that he/she is playing a major role in the organization which eventually gives a feel of ownership and because of that employee can put his best effort to accomplish a task.

CS101 Paper#7 (Solved)

1. What is bandwidth? (1 mark)

Answer:

Bandwidth is a capacity of communication channel of carrying data.

2. What is "My Personal Agent"? (1 mark)

Answer:

A computer programe that work automatically and have voice interface

3. For what purposes FTP is used in networks ? (2 marks)

Answer:

To download or upload files / data to a remote computer

4. How can you define a readable program? (2 marks)

Answer:

A program that is easy to read & understand also easy to maintain and enhance.

5. What is the preferred organizational structure for the organization? (2

marks)

Answer:

The Network Organization: It is becoming the preferred organizational structure.

6. can you define a consistent web design? Why is it needed? (3 marks)

Answer:

A consistent web design is Easy understandable, not with heavy graphics, easy navigation. It is needed because most of the website views leave the site because of poor navigation and not easy to understand, text and design is not clear etc.

7. Elaborate Vector or Object oriented graphics with atleast one example. (3 marks)

Answer:

Vector treats everything that is drawn as object, they are resolution in dependent and relatively small file size. For example swg, svg, wmf.

8. What are the advantages of multimedia presentations? Write any five. (5 marks)

Answer:

Multimedia presentation is a great tool for effective communication:
Advantages:

1. Easy to make last minute change
2. More attractive
3. Can include animation, videos etc.
4. Better presentation easy to understandable for participants comparing to manual presentation.
5. Undo feature

9. Can a human doctor be replaced by an Expert System? Give reasons to support your answer. (5 marks)

Answer:

Expert System is a computer system which simulates the knowledge and expertise of a human expert. Yes, a human doctor can be replaced by an Expert System. Following are the reasons to support my answer:

1. A large database of knowledge can be added to and kept up to date, it can store more knowledge than a person.
2. The Expert System cannot FORGET or get facts wrong.

3. It survives forever. There is no loss of knowledge as there is when a doctor retires.
4. The Expert System can access specialist knowledge that a doctor may not have.

10. Explain the following issues of Data Management? (3+4+3)

Answer:

1. Data entry
2. Data updates
3. Data security

DATA ENTRY:

There is new data entered every day.
New customers are added every day.
Some of the data entry requires the manual entry into computer system
New data entry needs to be entered correctly

DATA UPDATES:

Old titles must be removed regularly
Data changes every time
Prices change
Transportation / shipping cost changes
Customer personal data changes
Schemes changing, new offers
Every new entry needs to be entered correctly

DATA SECURITY:

All data in the system is very critical to its operation, the security of the customer's personal data is most important. Most of the hackers are always trying for that type of information specially Credit Card Numbers.
This problem can be managed by using proper security arrangements and mechanisms that provides access to only authorized entities. System Security can be improved through, encryption, firewalls and updated Antivirus Softwares

11. Write a note on the followings (10 marks)

a. Image Preloading process
b. Animated Gifs

Answer:

IMAGE PRELOADING PROCESS:

The primary use of image preloading process is to download the image into the cache before it is actually needed to display.

PROCESS:

1. An example of the image object is shaped using the NEW keyword
2. The src property of this instance is set equal to the filename of the image to be

pre-loaded
3. This step starts the down-loading of the image into the cache without actually displaying
4. When a pre-loaded image is required to be displayed, the src property of the displayed image is set to the src property of pre fetched image

ANIMATE GIFS:

We can save 16 gif images of the previous example in a single file in the form of an animated gif, and then used it in a regular <IMG> tag to display a moving image. However, JavaScript provide better control over the sequencing and the gap between the individual images.

CS101 Paper#8 (Solved)

1. SMTP stands for what? (1 mark)

Answer:

SMTP, Simple Mail Transfer Protocol (internet email).

2. What are the types of computer network according to the distance between nodes?

(5 mark)

Answer:

Types of Computer Networks according to the distance between nodes
LAN: Local Area Network)
WAN: Wide Area Network)

LAN
A network of computers located in the same building or a handful of nearby buildings
Examples:
–Computer network at your PVC
–Computer network of a University campus

WAN
A network in which computers are separated by great distances, typically across cities or even continents
May consist of several interconnected LANs
Example:
–The network connecting the ATM of a bank located in various cities
–A network connecting the local and oversea offices of a SW house
–Internet

3. What is the difference between Internet and Intranet? (2 marks)

Answer:

There's one major distinction between an intranet and the Internet: The Internet is

an open, public space, while an intranet is designed to be a private space. An intranet may be accessible from the Internet, but as a rule it's protected by a password and accessible only to employees or other authorized users.

4. List any five issues of Data Management. (5 marks)

Answer:

- Low leverage of data assets
- Decentralized Data Management
- Data Security
- Audit ability
- Inefficient use of Resources

5. What does TCP/IP stand for? (1 mark)

Answer:

TCP/IP stands for Transmission Control Protocol/Internet Protocol, which is a set of networking protocols that allows two or more computers to communicate.

CS101 Paper#9 (Solved)

1. In programming, what is an object? (1 mark)

Answer:

It is a named collection of properties and methods.

2. What kind of information can be stored in a database? (1 mark)

Answer:

It can store numbers, boleans, sound, video, images etc.

3. Define the key weakness of the web? (2 marks)

Answer:

Initially web was designed only for humans to read not for computers to understand it.

4. How can we define a Pixel? (3 marks)

Answer:

It is the smallest element of image which is spread with regular array on display and each element consist of particular color.

5. How marketing strategies are changed with the progress in computing? How new marketing strategies are implemented? (5 marks)

Answer:

Marketing Strategy Changes with the new requirements of the modern era and the applications of the business. The web has changed marketing strategy from a mass focus to single person focus. We collected data and analyze accordingly to find out the behavior of the market and end users. In new marketing more advertising is being done through email and web and get feedback.

6. Write a brief note on each of the following. (10 marks)

¬ FTP

- ¬ Telnet
- ¬ Instant messaging
- ¬ VOIP

Answer:

FTP: File Transfer Protocol: This protocol is used to upload and download the files on remote computers.

Telnet: FTP allows file operations only while Telnet can log on to a computer of other users through TCP/IP network and use like a local user, it help in testing of remote web server.

Instant Messaging: This is the service of messaging provided on the internet like MSN messenger, Yahoo messenger, through which we interact people randomly whenever required.

VOIP: Voice over IP, It is used to transmit the voice from one IP to another IP, In which voice is first broken down and then transmitted over a network.

7. What are Commonsense Guidelines to avoid viruses? Discuss about Antivirus as well. (10 marks)

Answer:

Commonsense Guidelines to avoid viruses are as follows:

1. Do not open attachment of unwanted emails.
2. Don't used copied/pirated Software
3. Regularly place data somewhere as backup
4. Use Registered and Trusted Software only.
5. Install Antivirus in the system
6. Update your Windows and software with the passage of time.
7. Scan before using any external device with your system as USB Device.

Antivirus:

This is the software design for preventing your system from harmful effects and maintain the speed of computer. This software is available on the CD's and DVD's. These software continuously monitor the systems and aware when any harmful virus is detected and asked for the further operations. Some automatically remove the viruses from the system.

CS101 Paper#10 (Solved)

1. What is bandwidth? (1 mark)

Answer:

Bandwidth is a capacity of communication channel of carrying data.

2. What is "My Personal Agent"? (1 mark)

Answer:

A computer program that work automatically and have voice interface

3. For what purposes FTP is used in networks ? (1 mark)

Answer:

To download or upload files / data to a remote computer

4. How can you define a readable program? (2 marks)

Answer:

A program that is easy to read & understand also easy to maintain and enhance.

5. What is the preferred organizational structure for the organization? (2 marks)

Answer:

The Network Organization: It is becoming the preferred organizational structure.

6. How can you define a consistent web design? Why is it needed? (3 marks)

Answer:

A consistent web design is Easy understandable, not with heavy graphics, easy navigation. It is needed because most of the website views leave the site because of poor navigation and not easy to understand, text and design is not clear etc.

7. Elaborate Vector or Object oriented graphics with atleast one example. (3 marks)

Answer:

Vector treats everything that is drawn as object, they are resolution in dependent and relatively small file size. For example swg, svg, wmf.

8. What are the advantages of multimedia presentations? Write any five. (5 marks)

Answer:

Multimedia presentation is a great tool for effective communication:

Advantages:

6. Easy to make last minute change
7. More attractive
8. Can include animation, videos etc.
9. Better presentation easy to understandable for participants comparing to manual

presentation.

10. Undo feature

9. Can a human doctor be replaced by an Expert System? Give reasons to support your answer. (5 marks)

Answer:

Expert System is a computer system which simulates the knowledge and expertise of a human expert. Yes, a human doctor can be replaced by an Expert System. Following are the reasons to support my answer:

A large database of knowledge can be added to and kept up to date; it can store more knowledge than a person.
The Expert System cannot FORGET or get facts wrong.
It survives forever. There is no loss of knowledge as there is when a doctor retires.
The Expert System can access specialist knowledge that a doctor may not have.

10. Explain the following issues of Data Management? (3+4+3)

Data entry
Data updates
Data security

Answer:

DATA ENTRY:
There is new data entered every day.
New customers are added every day.
Some of the data entry requires the manual entry into computer system
New data entry needs to be entered correctly

DATA UPDATES:
Old titles must be removed regularly
Data changes every time
Prices change
Transportation / shipping cost changes
Customer personal data changes
Schemes changing, new offers
Every new entry needs to be entered correctly

DATA SECURITY:
All data in the system is very critical to its operation, the security of the customer's personal data is most important. Most of the hackers are always trying for that type of

information specially Credit Card Numbers.
This problem can be managed by using proper security arrangements and mechanisms that provides access to only authorized entities. System Security can be improved through, encryption, firewalls and updated Antivirus Softwares

CS101 Paper#11 (Solved)

1. Write a note on the followings (10 marks)

c. **Image Preloading process**
d. **Animated Gifs**

Answer:

IMAGE PRELOADING PROCESS:

The primary use of image preloading process is to download the image into the cache before it is actually needed to display.

PROCESS:
1. An example of the image object is shaped using the NEW keyword
2. The src property of this instance is set equal to the filename of the image to be pre-loaded
3. This step starts the down-loading of the image into the cache without actually displaying
4. When a pre-loaded image is required to be displayed, the src property of the displayed image is set to the src property of pre fetched image

ANIMATE GIFS:

We can save 16 gif images of the previous example in a single file in the form of an animated gif, and then used it in a regular <IMG> tag to display a moving image. However, JavaScript provide better control over the sequencing and the gap between the individual images.

2. What are application software? List down the names of three application software (3 marks)

Answer:

Definition: Application Software are that software then can interact directory with the user for performance of respective type of work.

Following are the types of Application Soft wares:-

- AutoCAD and Corel Draw
- Business Software
- Productivity SW
- Games Software

3. Why Local variable is preferred over Global variable? (5 marks)

Answer:

In my point of view Global variable has some advantage with Local variables is preferred due to the following reasons:-

When we declare any global variable in web page then in case of error and logic it's very difficult to see on which line this variable is used and what's his value if we have more than 2000 lines and all the functions in web page using that Global Variable so Global variables can make the logic of a Web page difficult to understand.

As we know we can use Global variable everywhere so Global variables also make the reuse and maintenance of your code much more complex.

4. In JavaScript, what is event handling? What are the two types of events? (5 marks)

Answer:

In java script we can capture events on do some operation on the basis of that particular event. For example we want to load some data on web page then with the help of event handling we can do this operation by using onLoad event.
We can put Event handlers in the body of web page and also in attributes of HTML. From the attribute we can call any JavaScript function that will do his operation and come back. Now we can also interact with server side with the help of AJAX in JavaScript function.

In-Line Event Handling

We can place event handlers in the BODY part and also in HTML attributes the event handlers attributes consist of 3 parts the event handler, equal sign and a string of JavaScript statement enclosed in quotes (single or double). And one more thing these should be put in one line without newline due to this sophisticated event handling is not possible with in-line event handling.

5. What is Structured Vector Graphics? (2 marks)

Answer:

This is a plug-in that is required to view swf (flash) files in the web browser

6. What kind of new jobs are created because of computing? And which old professions are being eliminated? (3 marks)

Answer:

Due to computing where people are getting benefits from automated systems on the other hand the people that are with KHATA system or Manual system and they don't know about computers are eliminated due to this reason and people take place of many people. We can see in the offices where before computer if there are four person required now only one person is required for example with the help of database we can store more than thousand of information and only one person is managing the whole data that is DBA. In the old system many people are writing the data in registers and then its also very difficult to find the specific record.

Now we can see companies are hiring:-

Data Entry Operators
System Engineers
Software Developer
DBA etc.

7. What are Logic- or Time-Bombs? (3 marks)

Answer:

It execute the payload when predetermined event occurs
For example use type particular phrase and particular data is reached.

8. What do you mean by FTP or File Transfer Protocol? (3 marks)

Answer:

This protocol is used to upload the files on remote computers. This is used to transfer files between computer on TCP/IP network e.g. internet and now a day's many software are available for uploading files using FTP like Mozila FTP, cute FTP etc.

9. Why should we, as computing professionals, be interested in studying the social implications of our creations? (3 marks)

Answer:

If we see our life then we can judge computing technology is changing our life fast if we compare with other technology.

We should highlight the mistakes and successes of the past. We should learn then and select future direction accordingly. Computers are keep becoming more and more powerful and gaining more autonomy.

10.How DoS attack is a cyber crime? For what cyber crime can be used?

(3 marks)

Answer:

DoS is the crime but of a new type. A new type for policing system is required to tackle such crimes.

Cyber Crime can be used to Damage a home computer, Bring down the Business, Weaken the financial and defense system of country.

In programming, what is an object ?
Answer: It is a named collection of properties and methods.

CS101 Paper#12 (Solved

1. What kind of information can be stored in a database ? (1 mark)

Answer:

It can stored numbers, Booleans, sound, video, images etc.

2. Define the key weakness of the web? (2 marks)

Answer:

Initially web was designed only for humans to read not for computers to understand it.

3. How many iterations would this 'for' loop run for? (2 marks)

```
for ( x = 50 ; x < 0 ; x = x - 1 ) {
document.write ( x ) ;
}
```

Answer:

50 iterations

4. How can we define a Pixel? (2 marks)

Answer:

It is the smallest element of image which is spread with regular array on display and each element consist of particular color.

5. How marketing strategies are changed with the progress in computing? How new marketing strategies are implemented? (5 marks)

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CS101 Paper#13 (Solved

1. What is the out put of the following JavaScript code ? (1 mark)

```
name="Ali Akbar";
document.write(name.charAt(4)) ;
```

Answer:

A

2. What does WAN stand for? (2 marks)

Answer:

Wide Area Network – A network in which computers are separated by great distances typically across cities or even continents.

3. Why hub is used in networks? (2 marks)

Answer:

The network traffic controller – components of convential computer networks. Hub is used to connect the different computers in the network i.e. to the server.

4. What is output of the following JavaScript code? (2 marks)

```
Str=”Virtual University of Pakistan”;
document.write(str.substring(5,str.length))  ;
```

5. Explain how many ways businesses monitor their employees? (3 marks)

Answer:

Systems are available that monitor or most every key stroke that an employee makes on computer. Systems are available that read and sensor all incoming and outgoing email. It is quite straight forward to monitor where you surf and when.

6. Diffentiate Local and Global Variables. (3 marks)

Answer:

Local or function level variable effective only in the function in which they are declared while globale variables visible everywhere on the webpage. Declaration variables using the var keyword within a function makes them local. They are available only within the function and hold no meaning outside of vs global.

7. Elaborate Vector or Object oriented graphics with at least one example. (3 marks)

Answer:

Treats everything that is drawn an object. Objects retain their identity after their drawn. These objects can later be easily moved stretched duplicated deleted etc are resolution independent relatively small size. e. g. swf, wmf,

8. Why should we, as computing professionals, be interested in studying the social implications of our creations? (5 marks)

Answer:

This is imp. Because of keeping the track of money wise while implementation actually and see the results. This fits with the organization or no. to check there is any side effects morally or no. we have to be very careful while creation of any system., error

free, data loose recovery. Etc.

9. Write responsibilities of the followings (5 marks)

1. Developer

a) Module level design.
b) Coding
c) Unit testing

2. Executive Team

a) Responsible for the day to day operations.
b) All the decision related issues.
c) Policy making and changing etc.

e.g. In this usually CEO and CMSO involves

1. He is responsible for the day to day operation and great organizational skills.

3. Support Team

The support team is responsible for the complete operations such as arrangement for performing any kind of task from the starts to the end. Fully project handling and performing etc. In case of any maintenance they are the responsible for commencing the job and making sure to complete.

CS101 Paper#14 (Solved

1. What is a function? Give one example. (2 marks)

Answer:

Function is a reusable code (group of statement) that is executed when the function is called. It is also known as sub-program. Function is normally defined in the head section of the code.

2. What is an intelligent system? (2 marks)

Answer:

Intelligent systems are the programs developed to perform complicated jobs that reflect human brain and thoughts. If the algorithms are too much complex or can not be solved instantly then we can use such systems. Therefore the well intelligent system not

only performs well but it has the capability to rectify any errors by himself if it occurs within his domain. The examples of intelligent systems are Robotics, Business Intelligence …etc.

3. What is meant by semantic error? (3 marks)

Answer:

It is an error which a developer encounters when a statement is executed but it was not intended by him (the developer). Such errors are very difficult to locate during testing. Mostly these occur during abnormal circumstances. It may be referred as the logical error.

4. What is best algorithm? (3 marks)

Answer:

Greedy algorithm is the best algorithm as it is n algorithm that always takes the best immediate or local solution while finding an answer.

5. How can we include images in a web page using HTML and Java script? (3 marks)

Answer:

Images can be included in HTML by employing <IMG> tag, below is the format of <IMG>

<IMG src=URL, alt=text height=pixels width=pixels align="bottom|middle|top">

6. What are the Sub categories of Artificial Intelligence? Briefly explain any two. (3 marks)

Answer:

1. Robotics

These are the machines which are computer programmed and perform work which was previously done by humans. They can be found in the manufacturing industry, the military, space exploration and medical applications.

2. Expert Systems

These systems are designed to replace an expert. The medical expert system is an example of such system which can replace a Doctor/medical expert.

7. What are the steps of working of TCP and IP protocols in internet transmission? (3 marks)

Answer:

TCP divide messages in to many packets (capsulation) and sent these messages

over the internet and IP route these messages on the internet to the correct destination and upon reaching the messages on its destination the messages are encapsulated.

8. What is ARPANET and who developed it?(5 marks)

Answer:

ARPANET stands for Advanced Research Projects. The initial purpose was to communicate with and share computer resources among mainly scientific users at the connected institutions. In the beginning it was connected four universities and enabled scientists to share resources.

It was headed by Dr. J.C.R. Licklider.

CS101 Paper#14 (Solved

1. For what purposes FTP is used in networks? (2 marks)

Answer:

FTP is a service of internet. FTP was to transfer files between computers on ECP/IP network e.g.:-simple commands allows the user to list, creators on a remote computer upload or downloads .Typical we transferring web content from the developers PC to the web servers.

2.What is the Data Normalization? Also define its goal.(2 marks)

Answer:

It is to sort complex data into simple from. It uses to simplify the complex information to make it more users friendly.

3.Define the key weakness of the web?(3marks)

Answer:

A Web was designed for humans to read, not for computers to understand and manipulate meaningfully. As, computers language is different from human language, computer face great problems in dealing with the current text and graphics-based contact of the web.

4.What kind of new jobs are created because of computing? And which old professions are being eliminated? (3 marks)

Answer:

Due to computing where people are getting benefits from automated system on the other hand the people that are with KHATA system or manual system and they do not now anything about computer are eliminated due to reasons before computer 4 people required in a office and now only 1 person required and in old system many people are writing the data in a registers and then its abosvery difficult to find the specific record but with the help of database we can store more than 1000 of information and only one person is managing the whole data that is DBA.

5.What is the difference between Internet and Intranet ? (5 marks)

Answer:

Intranet and internet are 2 domains that are very a like but often segregated in order to maintain security. Internet is where I am having exam now it provides access to the rest

of digital world e.g:- world wide web .Intranet is a small varsim of this used by companies and is normally local, e.g:- only the people who work those have access to the information being shared on its seriver.There is one major distination between an intranet and the internet the internet is an open, public places while intranet is in only in pravite places.

6.Differentiate between on Load and on Unload(3 marks)

Answer:

On load executes the specified JavaScript code when a new document is loaded into windows.

ON Unload executes he specified JavaScript code when a user exits a document.

7. Mention any five applications of Artificial Intelligent System.(3 marks)

Answer:

1)Medical Diagnosis 2)Robots 3) Games 4) Business intelligence 5)Image Recognition.

8 What is an IP address? (1 mark)

Answer:

Every machine on the Internet has a unique identifying number, called an IP Address. A typical IP address looks like this:

- 216.27.61.137

9 What is internet? (2 marks)

Answer:

The Internet, sometimes called simply "the Net," is a worldwide system of computer networks - a network of networks in which users at any one computer can, if they have permission, get information from any other computer (and sometimes talk directly to users at other computers).

10Define semantic web with respect to the present web? (2 marks)

Answer:

In the Semantic Web data itself becomes part of the Web and is able to be processed independently of application, platform, or domain. This is in contrast to the World Wide Web as we know it today, which contains virtually boundless information in the form of documents. We can use computers to search for these documents, but they still have to be read and interpreted by humans before any useful information can be extrapolated.

Final term paper
Solved by binish awais

Admin MBA-1

1-javascipt stores all numbers even inteters as----------?
1-floating numbers
2-floating point
3-floating point numbers
4-none
2--------- are always enclosed in matching pair of single or double quotes
1-numerical literals
2-string quotes
3-bolean literals
4-none
3-operators operate on ----- - to achieve the direct result
1-operands
2-operations
3-methods
4-variables
4-following operators belong to javascipt except one?
1-arithmatic operations
2-sting operatiors
3- comparison operators
4-document operator
5-the equal comparison operator is
1-= =
2-!=
3 =!
4->=
6-2*4----------→?
1-8
2-16
3-14
4-6
7-2/4----------→?
1-1.5
2-0.5
3-2
4-none
8-2-4----------→
1-2

2- -2
3- 8
4-none
9- 5%2----------→?
1-2.5
2- 1
3- 8
4-none
10- a= = b----------→?
1-true if a and b are not same
2-true if a and b are same
3-true if a is shorter than b
4-none
11- a!=b----------→?
1-true if a and b are not same
2-true if a and b are same
3-true if a is less than b
4-none
12- a>b----------→?
1- true if a is greater than b
2-true if b is greater than a
3- true if a is less than b
4-none
15- a>=b----------?
1-true if a is greater than or equal to b
2-true if a is smaller than or equal to b
3-true if a is greater than b
4-none
16-a<b----------?
1-true if a is greater than b
2-true if a is lesser than b
3-true if a is smaller or equal than b
4-none
17-the ---------- operator can be use to concatenate two strings
1-+
2- -
3- %
4- none

18-title = ''bhola ''+''''continental''
1- ''bhola''''continental''
2-bhola+continental
3-bhola continental
4-none
19-termination of all javascript statements with ; is necessary always-----?
1-true
2-false
20- b=2; ----------→
1-identifier
2-operator
3-literals
4-none

Final term paper
Solved by binish awais
Admin MBA-1

1-everything that javascript manipulate it treats as an----------?
1-subject
2-element
3-object
4-none
2-window has size position status means that ----------?
1-object has shape
2-object has properties
3-object has visual effect
4-none
3-in javascript ''resize a window with resize to (150,200) shows that object can be manipulated with ----------?
1-associated patterns
2-associated properties
3-associated methods
4-none
4------- is a named collection of properties (data,state)and methods (instruction,behaviors)
1-thing

2-window
3-object
4-none
5--------- objects that contain info not about the content of display but the browser itself
1-navigator objects
2- browser objects
3-window objects
4-none
6----------objects that are part of javascript
1-javaobjects
2-javascipt objects
3-1and 2
4-none
7- a document is also known as -------?
1-browser object
2-javascript object
3-java object
4-none
8- java script is not true object oriented language like c++ or java
1-true
2-false
9-javascript lacks two keys features ----------?
1- a formal inheritance mechanism
2----------?
1-typing
2-weak typing
3- strong typing
4-none
10-javascript is also known as---------?
1-object oriented
2-object based
3-true object oriented
4-none
11-unlike in c and c++ and java there are no explicit data type in javascript
1-true
2-false

12----- given is ability to manipulate data through refrence instead of actuall value
1-numbers
2-x and y
3-variables
4-none
13-variables are containers that hold ----------?
1-result
2-value
3-numbers
4-none
14------- value of a variable varies during code ----------?
1- determination
2-manipulation
3-execution
4-none
15-identifiers are names used by javascript to refer to variables ----------?
1-objects
2-properties
3-method functions
4-all given
16-a identifier must begins with an ---------- or underscore character
1-alphabetical
2- A – Z
3- a- z
4- all given
17- subsequent character can be an/a -------?
1-alphabetical character
2-number character
3-underscore
4-all given
18-javascript keywords can be used as identifier--------?
1-true
2-false
19-number strings bollean are types of ----------?
1-literals
2-identifier

3-variables
4-none
20---------- a data that appears directly in a statements
1-javascript literals
2-javasricpt variable
3-javascipt
4-none

Final term paper
Solved by binish awais
Admin MBA-1

1- electronic replacement of ledgers are --------?
1-spread sheet
2-webpages
3-webfiles
4-none
2-spread sheet is ----------?
1-collection of rows
2-collection of rows and information
3-collection of cells
4-collection of cells arranged in rows and columns
3-a cell can contain one of these expcept ----------?
1-numbers
2-text
3-formula
4-another cell
4-a good rule of thumb is ----------lines one a slid
1-5+_3
2-5+_2
3-5 +_1
4-none
5-for presentation use at least ----------point size
1-22

2-12
3-24
4-100
6-for presentation use at least normal text size being ----------?
1-27-32
2-28-32
3-22-11
4-none
7-the guidline for presentation are actually ----------?
1-laws of nature
2-not laws of nature
3-multipurpose nature
4-none
8------can be used to develop presentation ?
1-word processor
2-excel
3-SW
4-none
9-popular presentation SW are except one ----?
1-CH Harvard graphics
2-CA Harvard graphics
3-Microsoft power point
4-corel presentation
10------ a group of statement that is put together once and then can be used repeatedly on a web page
1-command
2-function
3-codes
4-none
11-function is also known as except ?

1-subprogram
2-blog
3-procedure
4-subroutine
12- augment of a function -----?
1-semicolon separated list of data
2-comma separated list of data
3-curly braces separated list of data
4-none
13-augments define the interface b/w function and ---------?
1-data
2-spread sheet
3-webpage
4-code
14-to ensure that a function is defined before it is called up defined all function in the ---portion of webpages ?
1-HEAD
2- FOOT
3-Title
4-none
15-methods are ----------?
1-codes
2-commands
3-properties
4-functions
16-methods are unusual in the sense that they are stored as properties of -----?
1-things
2-windows
3-objects

4-none
17----------special-purpose functions that come pre defined with java script ?
1-event handlers
2-script codes
3-methods
4-functions
18-event handling defines----------?
1-capturing events
2-capturing new happening
3-capturing events and handling
4-capturing events and responding
19-event handlers are placed in----------part of webpage?
1-HEAD
2-BODY
3-function
4- HTML
20-eMAIL si ----------?
1-computer message
2-computer to telephone message
3-computer to computer message
4-none

CS-101
SOLVED BY AHSAN RANA (BROWN EYES)

Question No: 1 (Marks: 1) - Please choose one
---------- was known as "mill" in Analytical engine.
► Memory

Ans► Processor
► Monitor
► Mouse
Ref: An arithmetical unit (the "mill") would be able to perform all four arithmetic operations, plus comparisons and optionally square roots. Initially it was conceived as a difference engine curved back upon itself, in a generally circular layout,[2] with the long store exiting off to one side.

Question No: 2 (Marks: 1) - Please choose one

First electronic computer was

Ans ► **ABC**
► UNVAC 1
► Harvard Mark 1
► IBM PC

Question No: 3 (Marks: 1) - Please choose one

What is NOT a key factor while designing a website?

► Usability
► User-friendly
► Consistency
Ans ► Complexity

Question No: 4 (Marks: 1) - Please choose one

What happens if I start a new list without closing the original one?

► An error will be generated
Ans ► A nested list will be created
► Previous list will end and a new will start.
► Nothing will happen

Question No: 5 (Marks: 1) - Please choose one

The most upper right pixel of the screen is of _____ color.

Ans► Any
► Red
► Green
► Blue

Question No: 6 (Marks: 1) - Please choose one

A single pixel can acquire approximately _____ color schemes.

► 1 million
► 2 million
► 10 million
Ans ► 16 million

Question No: 7 (Marks: 1) - Please choose one

The idea of Neural Networks field is based upon _____.
► Human nature
Ans ► Human brain
► Human culture
► Human actions
Question No: 8 (Marks: 1) - Please choose one
Which one of the following is an application for artificial intelligence?
► Robotic
► Web Agent
► Decision Support System
Ans ► All of the given options
Question No: 9 (Marks: 1) - Please choose one
Register is a kind of _____memory
Ans ► Fast
► Super fast
► Slow
► Very slow
Question No: 10 (Marks: 1) - Please choose one
Which of the following is a true statement?
► Flat-file storage is better than tabular storage.
Ans ► Tabular storage is better than flat-file storage.
► Flat-file storage is better than relational storage.
► None of the given options
Question No: 11 (Marks: 1) - Please choose one
substring(n, m) returns a string containing characters copied from position n to_____.
► m – 2
Ans ► m – 1
► m + 1
► m
Question No: 12 (Marks: 1) - Please choose one
The _____ is the old profession which is being eliminated because of computing.
Ans ► Typist
► Bank manager
► Operational manager
► All of the given options
Question No: 13 (Marks: 1) - Please choose one

The system that manages relational database, is called _____.
► None of the given options
► Database Management System
► Data Management System
Ans ► Relational Database Management System
Question No: 14 (Marks: 1) - Please choose one
When web server is busy it gives the following message to the user :
► Time out
► Waiting
Ans ► Server busy
► None of the given options
Question No: 15 (Marks: 1) - Please choose one
The group of technologies concerned with the capturing, processing and transmission of information in the digital electronic form is called _____.
► Telecom Engineering
► Computer Engineering
► Computer Science
Ans ► Information Technology
Question No: 16 (Marks: 1) - Please choose one
_____ team consists on the sharpest technical minds in the company.
Ans ► Architecture
► Business Development
► Configuration Management
► Developer
Question No: 17 (Marks: 1) - Please choose one
TCP stands for _____.
► Transfer Center protocol
Ans ► Transmission Control Protocol
► Transmission Center Protocol
► Telephone Center Protocol
Question No: 18 (Marks: 1) - Please choose one
A collection of data organized in such a way that the computer can quickly search for a desired data item is known as :
► Retrieving
Ans ► Database
► Information

► DBMS

Question No: 19 (Marks: 1) - Please choose one

Microsoft Word is a type of:

► System Software

► Freeware Software

Ans ► Shrink-Wrapped Software

► Custom-built Software

Question No: 20 (Marks: 1) - Please choose one

Users _____, how things work.

► Analyze in detail

Ans ► Muddle through

► Figure out

► Read in detail

Question No: 21 (Marks: 1) - Please choose one

Popular schemes used for reducing bytes for storage are:

► RGB and Color mapping

► RGB and Dithering

► RGB, Color mapping and Dithering

Ans ► Color mapping and Dithering

Question No: 22 (Marks: 1) - Please choose one

Hardware malfunctions is related to

► Data updates

Ans ► **Data integrity**

► Data security

► Data accessibility

Question No: 23 (Marks: 1) - Please choose one

If incorrectly we enter the negative age it is check by

Ans ► Limit Integrity

► Type Integrity

► Referential Integrity

► Physical Integrity

Question No: 24 (Marks: 1) - Please choose one

Which is the user-friendly way of presenting data ?

► Query

► Form

Ans ► Report

► All of the given options

Question No: 25 (Marks: 1) - Please choose one

Currently the BlueRay DVD can store more than _____ of data.
► 10 GB
► 100 GB
Ans ► 50 GB
► 150 GB
Question No: 26 (Marks: 1) - Please choose one
In JavaScript, a || b is interpreted as
► a is true or b is false
► a is true and b is true
► a is false and b is true
Ans ► a is true or b is true or both are true
Question No: 27 (Marks: 1) - Please choose one
Speakers fall into the hardware category.
Ans ► True
► False
Question No: 28 (Marks: 1) - Please choose one
onBlur event is occurred for a form element when it _____
► Gets focus
Ans ► Losts focus
► Some thing is typed in
► onBlur is not an event
Question No: 29 (Marks: 1) - Please choose one
You can view a 3-D image on a _____.
► 3-D display
► 2-D display
Ans ► On both 2-D and 3-D displays
► We can not view a 3-D image
Question No: 30 (Marks: 1) - Please choose one
Module level design and unit testing is the responsibility of _____.
► Team Lead
Ans ► Developer
► Project Manager
► Quality Assurance Expert
FINALTERM EXAMINATION
Fall 2009
CS101- Introduction to Computing (Session - 2)
SOLVED BY AHSAN RANA (BROWN EYES)
Time: 120 min
Marks: 75

Question No: 1 (Marks: 1) - Please choose one
Most frequently used computers are:
► Mainframe Computers
Ans► Personal Computers
► Supper Computers
► Embedded Computers
Question No: 2 (Marks: 1) - Please choose one
Success of a website is defined by _____.
Ans ► User
► Designer
► Developer
► Programmer
Question No: 3 (Marks: 1) - Please choose one
_____ breaks down the message to be sent over the internet into packets.
► FTP
► HTTP
► TCP
► IP
Question No: 4 (Marks: 1) - Please choose one
JavaScript does not support_____
► User interaction
► Graphics
Ans ► Network operations
► Both Graphics and Network operations
Question No: 5 (Marks: 1) - Please choose one
Detailed plan, specifying the required resources and expected deliverables, is done in _____ phase.
ans► Planning
► User Requirements
► Design
► Developer Specification
Question No: 6 (Marks: 1) - Please choose one
In a
good presentation each slide should contain_____.
ans ► Heading
► Phrases not sentences
► Sentences not phrases
► Heading, sentences not phrases
Question No: 7 (Marks: 1) - Please choose one
Which one of the following is NOT a primary color?
► Red
► Green
ans ► Yellow
► Blue
Question No: 8 (Marks: 1) - Please choose one
Spread sheet is a type of _____.
ans ► Productivity software
► Engineering software
► Mathematical software
► Business software
Question No: 9 (Marks: 1) - Please choose one
When'+' operator is used with string operands, it _____ both strings.
► Adds
► Subtracts

ans ► Concatenates
► Compares
Question No: 10 (Marks: 1) - Please choose one
When web server is busy it gives the following message to the user :
► Time out
► Waiting
ans ► Server busy
► None of the given options
Question No: 11 (Marks: 1) - Please choose one
Which attribute of the IMG tag tells us about the source of the image _____.
► source
► path
► loc
ans ► src
Question No: 12 (Marks: 1) - Please choose one
The
_____ is becoming the preferred organizational structure for more and more organizations with the passage of time.
► Tree structured organizational model
ans ► Network paradigm
► Hierarchical structure
► None of the given options
Question No: 13 (Marks: 1) - Please choose one
The
Information technology has three components _____.
► Telecom Engineering, Network Engineering, Computer Science
ans ► Telecom Engineering, Computer Engineering, Computer Science
► Telecom Engineering, Computer Engineering, Database Engineering
► Telecom Engineering, Computer Engineering, Hardware Engineering
Question No: 14 (Marks: 1) - Please choose one
_____ has great PR skills.
► Architect
► Team Lead
► Project Manager
ans ► Chief Executive Officer
Question No: 15 (Marks: 1) - Please choose one
_____ errors are caused by the code that somehow violates the rule of the language.
ans ► Syntax
► Semantic
► Run time
► Load time
Question No: 16 (Marks: 1) - Please choose one
A
large number of networks interconnected physically is called _____
► LAN
► MAN
ans ► Internet
► Network collection
Question No: 17 (Marks: 1) - Please choose one
When the packets reach at destination, _____ reassembles them into original message.
► Protocol
ans ► TCP
► IP

► NIC

Question No: 18 (Marks: 1) - Please choose one

A
collection of data organized in such a way that the computer can quickly search for a desired data item is known as :

► Retrieving
ans ► Database
► Information
► DBMS

Question No: 19 (Marks: 1) - Please choose one

If an
algorithm is syntactically correct, but semantically incorrect then this situation is

► Very good situation
ans ► Very dangerous situation
► Not very bad
► Neutral situation

Question No: 20 (Marks: 1) - Please choose one

In
Heuristics “Common Sense Lessons” are drawn from

► History
ans ► Experience
► Biography of Scientists
► General knowledge

Question No: 21 (Marks: 1) - Please choose one

Users look for _____ solution.

► Optimal
ans ► First good enough
► Good
► Best

Question No: 22 (Marks: 1) - Please choose one

The
key property of the ‘Array’ object in JavaScript is

► Value
ans ► Length
► Name
► All of the given choices

Question No: 23 (Marks: 1) - Please choose one

In
JavaScript, each element of array can store data of type

► A Number
► An Array
► A String variable
ans ► All of the given choices

Question No: 24 (Marks: 1) - Please choose one

Which is NOT true for JavaScript variable name ?

► Student
► Roll_no_1111
ans ► For
► _schedule

Question No: 25 (Marks: 1) - Please choose one

In
JavaScript, second element of an array has the index:

► 2

► 0
ans ► 1
► 3
Question No: 26 (Marks: 1) - Please choose one
Which protocol is use to transfer a file over the network ?
► UDP
ans ► FTP
► TCP
► OSI
Question No: 27 (Marks: 1) - Please choose one
Users communicate with the computer using a consistent user interface provided by the OS.
ans ► True
► False
Question No: 28 (Marks: 1) - Please choose one
Data
was stored and counted mechanically using ---------- decimal storage wheels, ---------- rotary dial switches.
► 300,400
► 1300,1400
► 30100,14100
ans ► 3000 , 1400
Question No: 29 (Marks: 1) - Please choose one
From which of the following is NOT a technique through which Security can be improved :
► Private or virtual-private networks
► Firewalls
ans ► Metal detectors
► Virus detectors
Question No: 30 (Marks: 1) - Please choose one
Data
integrity, in Database management system is necessary because it:
► Refers to provide security to the data
► Refers to provide security to the data
► Refers to maintaining the correctness of data
ans ► Refers to maintaining the consistency of the data
Question No: 31 (Marks: 1)
What are the types of computer network according to the distance between nodes ?
the answer of all these question have written in previous papers in this set.
Question No: 32 (Marks: 1)
What is an IP address ?
Question No: 33 (Marks: 2)
What is internet?
Question No: 34 (Marks: 2)
Define semantic web with respect to the present web?
Question No: 35 (Marks: 3)
Explain how many ways businesses monitor their employees?
Question No: 36 (Marks: 3)
How
can you define a consistent web design? Why is it needed?
Question No: 37 (Marks: 3)
Differentiate between onLoad and onUnload
Question No: 38 (Marks: 5)
What is the role of usability in the design of a website?
Question No: 39 (Marks: 5)

Write a short note on:
a. Testing
b. Debugging

Question No: 40 (Marks: 10)

Write responsibilities of the followings
1. Developer
2. Executive Team
3. Support Team

Question No: 41 (Marks: 10)

Write down HTML and JavaScript code for the following requirements:
Declare an Array with the identifier SUBJECT having length 5. Assign following values to the array elements:
MIS, Java, Algorithms, Databases, C++
Show all values in reverse order.

Question No: 1 (Marks: 1) - Please choose one

It represents the _____ flow chart element.
► Flow Line
► Connector
► Off-page connector
► Start or Stop

Question No: 2 (Marks: 1) - Please choose one

What is NOT a key factor while designing a website?
► Usability
► User-friendly
► Consistency
► Complexity

Question No: 3 (Marks: 1) - Please choose one

_____% of the users have left websites in frustration due to poor navigation.
► 40
► 62
► 83
► 91

Question No: 4 (Marks: 1) - Please choose one

In
JavaScript, a variable declaration is
► Optional
► Mandatory
► Not allowed
► None of the given

Question No: 5 (Marks: 1) - Please choose one

A
protocol used for receiving email messages is called _____.
► URL
► Telnet
► POP3
► SMTP

Question No: 6 (Marks: 1) - Please choose one

Which is correct?
► onUnload
► onUnLoad
► onUNLOAD
► All of the above

Question No: 7 (Marks: 1) - Please choose one
Serial arrangement in which things follow logical order or a recurrent pattern, such as statements executing one by one, is called _____.
► Loop
► Sequence
► Condition
► Array
Question No: 8 (Marks: 1) - Please choose one
Variables allow us to manipulate data through the _____.
► Actual Value
► Reference
► Length
► Name
Question No: 9 (Marks: 1) - Please choose one
Fuzzy logic is based on _____.
► Ground facts
► Experience
► Practice
► Approximation
Question No: 10 (Marks: 1) - Please choose one
Word Processor is a _____
► System Software
► Application Software
► Device
► Utility
Question No: 11 (Marks: 1) - Please choose one
In
the old days, databases did NOT support _____.
► Number
► Boolean
► Video
► Text
Question No: 12 (Marks: 1) - Please choose one
In
tabular storage, fields placed in a particular row are strongly _____.
► Independent
► Dependent
► Interrelated
► Inconsistent
Question No: 13 (Marks: 1) - Please choose one
Due
to working at home, lack of interaction may result in _____ professional growth.
► Slower
► Faster
► Higher
► Improved
Question No: 14 (Marks: 1) - Please choose one
Distance learning has got a boost due to the _____.
► Easy communication
► Online interactive contents
► Flexibility
► All of the given options
Question No: 15 (Marks: 1) - Please choose one

_____ technique can be used to create smooth animations or to display one of several images based on the requirement.

► Image downloading
► Image preloading
► Image uploading
► Image postloading

Question No: 16 (Marks: 1) - Please choose one

The
_____ is becoming the preferred organizational structure for more and more organizations with the passage of time.

► Tree structured organizational model
► Network paradigm
► Hierarchical structure
► None of the given options

Question No: 17 (Marks: 1) - Please choose one

The
group of technologies concerned with the capturing, processing and transmission of information in the digital electronic form is called _____.

► Telecom Engineering
► Computer Engineering
► Computer Science
► Information Technology

Question No: 18 (Marks: 1) - Please choose one

A
large number of networks interconnected physically is called _____

► LAN
► MAN
► Internet
► Network collection

Question No: 19 (Marks: 1) - Please choose one

TCP
stands for _____.

► Transfer Center protocol
► Transmission Control Protocol
► Transmission Center Protocol
► Telephone Center Protocol

Question No: 20 (Marks: 1) - Please choose one

A
collection of data organized in such a way that the computer can quickly search for a desired data item is known as :

► Retrieving
► Database
► Information
► DBMS

Question No: 21 (Marks: 1) - Please choose one

_____ is simply a fast port that lets you connect computer peripherals and consumer electronics to your computer without restart.

► Freeware
► Shareware
► Firewire
► Firmware

Question No: 22 (Marks: 1) - Please choose one

Structures, in which another list starts before the first list is finished, are called:

► Multiple Lists
► Nested Lists
► Ordered Lists
► Un-ordered Lists

Question No: 23 (Marks: 1) - Please choose one

The
key property of the 'Array' object in JavaScript is

► Value
► Length
► Name
► All of the given choices

Question No: 24 (Marks: 1) - Please choose one

Which one is the example of spreadsheet software ?

► MS Word
► MS PowerPoint
► MS Excel
► MS Access

Question No: 25 (Marks: 1) - Please choose one

The
Encryption of data is related to

► Data updates
► Data security
► Data integrity
► Data accessibility

Question No: 26 (Marks: 1) - Please choose one

_____ is the process of analyzing large databases to identify patterns.

► Data normalization
► Data management
► Data Mining
► None of the given options

Question No: 27 (Marks: 1) - Please choose one

Which is the user-friendly way of presenting data ?

► Query
► Form
► Report
► All of the given options

Question No: 28 (Marks: 1) - Please choose one

JavaScript function fixed() has equivalent HTML tag-set ____

► <.FIX>……</FIX>
► <F>……..</F>
► <PRE>…….</PRE>
► <H>……..</H>

Question No: 29 (Marks: 1) - Please choose one

<form> Tags always placed between the <BODY> and </BODY> tags of a Web page

► True
► False

Question No: 30 (Marks: 1) - Please choose one

Java
script has ---------- ability to create and draw graphics.

► Limited
► Versatile
► Medium
► Not at all

Question No: 31 (Marks: 1)
What does TCP/IP stand for?
Transmission Control Protocol/Internet Protocol
Question No: 32 (Marks: 1)
Why
there is a need to use primary key in database ?
it is used to uniquely identify the records in the database.
Question No: 33 (Marks: 2)
What is image processing ?
It field of computer where we enhance and manipulate the graphics.
Like it is used to recover old photograph and by processing we can revive them like original form.
Question No: 34 (Marks: 2)
Define testing with respect to programming..
Testing is the process by which we try to determine the presence defects in a program.
Question No: 35 (Marks: 3)
How can we define a computer screen?
Use to display output of computer to the user. Computer screen is consists of pixels.
Question No: 36 (Marks: 3)
What is difference between Design and System Architecture?
System Architecture It is structure of a product or process
Design: It is start of the process of developing structure of system or product or we can its basic planning of making a system or product.
Question No: 37 (Marks: 3)
Write JavaScript code to convert the number 236.2363611111556 into currency format and JavaScript statement to show output.
```
Var input_amt = 236.2363611111556 ;
mid_data = input_amt.toString( ) ;
decimalPos = mid_data.indexOf( ".", 0 ) ;
final_amt = mid_data.substring( 0, decimalPos + 3 ) ;
document.write( final_amt + " Rs." ) ;
```
Question No: 38 (Marks: 5)
Show output of the following code:
```
for (i=0; i<=10; i++)
{
document.write("The number is " + i);
document.write("<br />");
}
```
The number is 0
The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
The number is 6
The number is 7
The number is 8
The number is 9
The number is 10
Question No: 39 (Marks: 5)
What is a Relational Database? Give the names of any three RDBMS software. (2+3)
Database consist of two or more then two tables are called Relational database.
Oracle dabatbase
Sql Server

Access

Question No: 40 (Marks: 10)

Define the following terms.

Object

They are foundation of object oreineted lanauge.They are data structure contains data fields and properiies and mothods

¬

¬ Event Handler

¬ An event handler is a command which is used to call a function when an event happens, such as the user clicking a button or mouse.

¬¬

Local Variable

¬ Declaring variables within a function, makes them local .They are available only within that function and hold no meaning outside of it

¬¬

Scope of Variable

¬ Space in which a variable is effective is known as the scope of a variable. In other words we can say area where that variable is available for the use

¬ Array

Indexed collections of variable of same data types or we can say a Set of organized variables of same type.

¬

Question No: 41 (Marks: 10)

What is the problem with Relational Database and what solution you can suggest for it?

When we store object orientated data into RDBMS it need to translate in to other form which is readable to that RDBMS. While we need that data back or we needed to get data from that stored data. Again it required to be translate back into readable form.

This dual processing process reduce the speed of reading back the data.

It required large knowledge base to implement.

Its implementation in small business it bit complex due to its complexity.

SOLVED BY AHSAN RANA (BROWN EYES)

Avoid _____ to ensure readability of web page

Overuse of bold and italics

Use of paragraphs

Use of white space

Use of contrast colors

Deep Blue was the name of:

Human

Computer

City

None of the given choices

DoS is_____ ?

Crime

Cyber crime

Not a crime

A software

_____ enables users located at far-way locations to easily share information with others located all

over the world.
Protocol
Internet
Communication Channel
None of the given choices
Vacuum tubes were replaced by:
Transistors
Electrodes
Electric Relays
None of the given choices
Cyber crime can be used to
Damage a home computer
Bring down a business
Weaken the telecom, financial, or even defense-related systems of a country
All of the given
The internet communities are _____.
Geographical based
Interest based
Country based
Religion based
Global variables are:
Visible everywhere on the web page
Visible only in the block in which they are declared
Visible only in the main code
None of the given choices
Infection propagation and Actual destructive are the components of _____
Transmission mechanism
Payload
Worms
Trojan Horse
If a computer could pass the Turing test then it would be able to:
win a million dollar prize
think like human begins
think but slower than humans
do the things faster
_____ is a special purpose computer that connects and translates between network that use different communication protocols.
Bridge
Router
Gateway
None of the given choices
The solution of the Mail Bombing is _____
Filtering
Do not accept emails
eMail filtering
There in no solution for it

The name of very first computer was:
ABC
BCD
EDC
None of the given choices
MATH functions are accessed by referring to various _____of the Math object
Functions
Events
Properties
Methods
The color of each pixel is generally represented in the form of a _____.
Duplet
Triplet
Both a & b
None of these
Rule of thumb learned through trial & error is called
Heuristic
Mistake
Common sense
Experience
SCSI stands for:
Small Computer System Interface
System Common Small Integration
Silicon Computer System Interface
Internet is an example of _____ network.
Private
Public
Both Private and Public
None of the given choices
The name of first commercially available PC was:
UNIVAC 1
ENIAC
EDVAC
Altair 8800
Algorithm is a _____
Definition of a problem
Sequence of steps to solve a problem
Understanding of a problem
Solving a problem
A group of information is called _____
File
Database
Record
Field
_____ is a branch f computer science concerned with manipulating and enhancing computer graphics.

Image Handling
Image Processing
Image Engineering
None of these
_____has changed our way of life like no other technology.
Computational technology
Computer technology
Computing technology
None of the Above
Sophisticated event handling is not possible with _____ event handling
Off-Line
In-Line
Out-Line
Non of the given choices
Babbage's Analytical Engine could store information permanently in:
Magnetic Tape
Floppy Disk
Punched Cards
None of the given choices
There are _____ popular schemes to reduce the number of bytes that are required for storing graphics.
4
3
2
None of these
The internet-society is considered under Surveillance because:
While surfing, we are being watched, constantly
Our every click is recorded and analyzed to extract patterns and behaviors
Webcams are becoming common. Providing a cheap way for parents to watch their children's every move
All of the given
Which of the following is incorrect for making design elements legible?
Elements should be large enough
Elements must contrast sufficiently
Related elements should be visually grouped
Elements should have no visual focus
Function is also known as _____.
subprogram
procedure
subroutine
All of given
In _____ TCP\IP protocols became the only set of protocols used on the ARPANET.
1973
1983
1972
None of the given choices

_____ / / /_____/ A Parallelogram (Tilted rectangle) represents the _____ flow chart
element.
Process
Input or Output
Decision
Connector
Punched cards were replaced by:
Floppy Disk
Zip Drives
Magnetic storage
None of the given choices
The _____virus may display an annoying, but harmless message
Malicious
Neutral
Helpful
DoS
The name of very first computer was:
ABC
BCD
EDC
None of the given choices
The internet communities are _____.
Geographical based
Interest based
Country based
Religion based
_____ consists of cells arranged in rows & columns
► Spreadsheets Software
► Word processor
► Presentation Software
► Microsoft Paint Software
_____ manages the HW and SW resources (memory, disk drives etc) of the computer system, often invisibly.
► Explorer.exe
► System Files
► Operating System
► Application Software
Forms can be submitted through _____ & _____ methods
► INCLUDE, POST
► INCLUDE, GET
► GET, POST
► SEND, POST
To display a checkbox on the web page, we use ___ tag
► CHECKBOX
► CHECK

► INPUT
► INPUTBOX
You can _____ from/to a website containing interactive forms.
► Only read
► Only write
► Read and write
► Not read and write
There is a battery on the motherboard to:
► Give power to the processor
► Save information when computer is off
► Save information when computer is on
► Give power to the motherboard
We can change the background color in HTML, using ___ attribute of <body>
► background
► bgcolor
► backcolor
► backgroundcolor
___ contains the name of the protocol required to access the resource, a domain name that identifies a
specific computer on the internet and a pathname on the computer
► HTML
► HTTP
► URL
► WWW
_____ is a client program that uses HTTP to make requests to Web servers throughout the internet on
behalf of the user.
► Web Application
► Web Browser
► Internet Application
► HTML
WWW stands for:
► Wide World Web
► World Wide Web
► World White Web
► World Web Wide
The weaknesses of the computer are:
► Pattern recognition & Storage
► Speed & Innovative ideas
► Pattern recognition & Innovative ideas
► Speed & Storage
Floating point unit is also known as _____ unit
► Real
► Integer
► Numeric
► Fractional

Programs that reside on Web servers and receive info that a user enters in a form, are known as:
► Server-Side Scripts
► Client-Side Scripts
► Super Scripts
► Form Scripts
---------- is volatile memory
► RAM
► ROM
► Hard Disk
► CD ROM
What will be the result of the following formula in Spreadsheet application ?
SUM(A2:A3) =_____(Assume that A2 = 25 A3 = 75)
► 25
► 50
► 75
► 100
VisiCalc was the first popular _____application on PC's.
► Spreadsheet
► Word processor
► Presentation
► Database
_____ is a system software that converts the source code written in high level language into
machine language code.
► Utilities
► Drivers
► Language Translator
► None of the these
What happens if I start a new list without closing the original one?
► An error will be generated
► A nested list will be created
► Previous list will end and a new will start.
► Nothing will happen
_____ is a program that executes instructions line by line written in a high-level language.
► Interpreter
► Compiler
► Predictor
► Executor
There are_____ rules to write the Pseudo Code.
► Standard
► No standard
► Strict
► Pre-defined
Which one is not the building block of an algorithm?
► Statements
► Sequences

► Repetitions
► Conditionals

A procedure that usually but not always works or that gives nearly the right answer is called_____

► Deterministic Algorithm
► Heuristic Algorithm
► Greedy Algorithm
► Randomized Algorithm

A Modem is a kind of ___

► Input device
► Output device
► Storage device
► Input and Output device

The memory size of the Altair 8800 was

► 128 bytes
► 128 Kilo bytes
► 256 Kilo bytes
► 256 bytes

---------- was known as “mill” in Analytical engine.

► Memory
► Processor
► Monitor
► Mouse

Because of spending more time on the internet, the distances among the families have been _____.

Increased
Expanded
Contracted
Shortened

Autonomous Web Agents are also known as _____

Mobile Agents
Softbots
Both "Mobile Agents" & "Softbots"
None of these

A communication protocol is a _____that governs the flow of information over a network.

Set of Methods
Set of Protocols
Set of rules
None of the given choices

By default in a web page Hyper Link for another web page is represented as:

Blue only
Black and Underlined
Blue and Bold
Blue and Underlined

The organizations are learning that business can be done in a more effective manner if emphasis is placed upon _____.

Cooperation
Shared responsibility
Networking
All of the given
Monitor is an example of _____devices
Output
Input
Processing
None of the given choices
The code in the _____ portion is the right choice for developing larger JavaScript scripts
Body
At End
Head
Separate
_____ based on the principles of the logical reasoning ability of humans.
Genetic Algorithms
Rule-based Systems
Feed-Forward Network
None of these
The key benefit of VPNs over conventional PNs is:
Security
Efficiency
Lower Cost
None of the given choices
In _____ automatic machines perform various tasks that were previously performed by humans.
Fuzzy Logic
Robotics
Rule based Systems
None of these
___ provides a simple, consistent way for applications to interact with the HW without having to know all the details of the HW
► Explorer.exe
► System Files
► Operating System
► Application Software
Communication protocol is a _____that governs the flow of information over a network
► Set of methods
► Set of protocols
► Set of rules
► Device
_____ team is responsible for the maintenance, expansion , improvement of the infrastructure

consisting of workstations, networking equipment, software and network security.
► Support
► Configuration Management
► Quality Assurance
► Developer
_____ team consists on the sharpest technical minds in the company.
► Architecture
► Business Development
► Configuration Management
► Developer
_____ is responsible for day to day operations.
► CEO
► COO
► CMSO
► Developer
Using Java Script you can write a character at random location on screen
► By applying randomCh() method
► With the help of String object
► With the help of random character property
► There is no built in approach in Java Script
The transistor is a solid state semiconductor device used for amplification and switching, and has _____
terminals.
► one
► two
► three
► four
Blue Pacific is a name of _____ computer.
► Mini
► Desktop
► Micro
► Super
Monte Carlo algorithm is an example of
► Randomized algorithm
► Greedy algorithm
► both greedy and randomized
► Heuristics
A set of stand alone productivity applications designed to work together known as __
► Productivity software suites
► Compiled software
► Secure software
► Intelligent software

FINALTERM EXAMINATION
Fall 2009
CS101- Introduction to Computing (Session - 2)

SOLVED BY AHSAN RANA (BROWN EYES)

Time: 120 min
Marks: 75
Question No: 1 (Marks: 1) - Please choose one
Human are better than computers atı
► Efficiency
► Accuracy
► **Pattern recognition**
► None of the given choices
Question No: 2 (Marks: 1) - Please choose one
TCP
stands for _____.
► Total communication protocol
► **Transmission control protocol**
► Transfer control protocol
► Transfer collection protocol
Question No: 3 (Marks: 1) - Please choose one
First
computer network was _____.
► NSFNET
► FIRSTNET
► **ARPANET**
► ORPHANET
Question No: 4 (Marks: 1) - Please choose one
A
user may access any item on the web through _____.
► **URL**
► Telnet
► POP
► SMTP
Question No: 5 (Marks: 1) - Please choose one
In
JavaScript, a variable declaration is
► **Optional**
► Mandatory
► Not allowed
► None of the given
Question No: 6 (Marks: 1) - Please choose one
According to a popular heuristic, success is defined by _____.
► **The user**
► The builder
► Both user and builder
► None of the given options
Question No: 7 (Marks: 1) - Please choose one
To
store rounded number of 8.6 in a variable called "r_number", we write _____.
► r_numbers=Maths.rounds(8.6)
► r_number=Math.rounds(8.6)
► **r_number=Math.round(8.6)**
► r_number=Maths.round(8.6)
Question No: 8 (Marks: 1) - Please choose one
random() function returns a randomly-selected, floating-point number between _____.
► **0 and 1**

► 0 and 10
► 0 and -10
► 0 and -1

Question No: 9 (Marks: 1) - Please choose one

Trinoo is a _____ software.

► **DoS**
► Scanning
► Utility
► None of the given options

Question No: 10 (Marks: 1) - Please choose one

Which attribute of the IMG tag tells us about the source of the image _____.

► source
► path
► loc
► **src**

Question No: 11 (Marks: 1) - Please choose one

The
developer report to _____ in a development team.

► **Team Lead**
► Project Manager
► CEO
► IT Manager

Question No: 12 (Marks: 1) - Please choose one

The
effective way not to only write programs but also it works properly and further more to minimize the time and the development cost of the program is called_____

► Programming Mechanism
► **Programming Methodology**
► Programming Synchronization
► None of the given options

Question No: 13 (Marks: 1) - Please choose one

TCP
stands for _____.

► Transfer Center protocol
► **Transmission Control Protocol**
► Transmission Center Protocol
► Telephone Center Protocol

Question No: 14 (Marks: 1) - Please choose one

When we buy a software package, we do not really buy it, we just by a license that allows us to use it, the _____stays with the maker.

► Agreement
► **Ownership**
► Membership
► Software

Question No: 15 (Marks: 1) - Please choose one

Many developers write the _____ first and then incrementally convert each line into _____.

► Real code & Pseudo code
► **Pseudo code & Real code**
► Real code & Artificial code
► None of the given options

Question No: 16 (Marks: 1) - Please choose one

Collection of facts & figures is called _____.

► **Information**
► Data
► Entity
► Attribute

Question No: 17 (Marks: 1) - Please choose one

A collection of data organized in such a way that the computer can quickly search for a desired data item is known as :

► Retrieving
► **Database**
► Information
► DBMS

Question No: 18 (Marks: 1) - Please choose one

To start an ordered list from 20 instead of 1, we will write

► <OL begin = “20">
► <OL initiate = “20">
► **<OL start = “20">**
► <OL from = “20">

Question No: 19 (Marks: 1) - Please choose one

Using COLSPAN, number of rows of the current cell should extend itself

► Upward
► **Downward**
► Both Upward and Downward
► None of the given choices

Question No: 20 (Marks: 1) - Please choose one

Microsoft Word is a type of:

► System Software
► **Freeware Software**
► Shrink-Wrapped Software
► Custom-built Software

Question No: 21 (Marks: 1) - Please choose one

Compound Statement after decision constructs in JavaScript is enclosed with

► ( )
► [ ]
► { };
► **{ }**

Question No: 22 (Marks: 1) - Please choose one

Users _____, how things work.

► Analyze in detail
► **Muddle through**
► Figure out
► Read in detail

Question No: 23 (Marks: 1) - Please choose one

One can send an email message to a remote computer using _____ protocol

► HTTP
► **SMTP**
► FTP
► TELNET

Question No: 24 (Marks: 1) - Please choose one

Writing a response, multiple statements are separated from each other with the help of

► **Period (.)**

► Comma (,)

► Colon (:)

► Semicolon (;)

Question No: 25 (Marks: 1) - Please choose one

With
the passage of time the field of Computing and Telecommunication is _____.

► Diverging

► **Converging**

► Becoming different

► Becoming unique

Question No: 26 (Marks: 1) - Please choose one

When we have to show value as part of a whole picture, which type of chart is used.

► Bar chart

► Pie chart

► Line graph

► **None of the given**

Question No: 27 (Marks: 1) - Please choose one

_____ software directly interacts with the user.

► **Application software**

► System software

► Anonymous software

► Interactive software

Question No: 28 (Marks: 1) - Please choose one

Global variables can make the logic of a web page.

► **Difficult to understand**

► Easier to understand and maintain

► Difficult to reuse and maintain

► Difficult to understand, reuse and maintain

Question No: 29 (Marks: 1) - Please choose one

**In
partitioning of program/module, it should be assured that partitioned chunks should be as _____ as possible.**

► Dependent

► **Independent**

► Complex

► All of the above

Question No: 30 (Marks: 1) - Please choose one

```
for(var i=1; i<=2;i=i+1)
{
document.write( "Sorted Words:" + "<BR>" )
}
```

Which of the following shall be the output of above code:

► Sorted Words: Sorted Words:

► **Sorted Words:
Sorted Words:**

► Sorted Words: “<BR>”
Sorted Words: “<BR>”

► Sorted Words:
Sorted Words:

Question No: 31 (Marks: 1)

What are the elements of website design? Any one

Ans:

Elements of webdesign: There are in 3 elements of web design and below are there names:
1. Navigation scheme
2. Overall look and feel
3. Layout of information

Question No: 32 (Marks: 1)
What kind of information can be stored in a database ?

- **Numbers, Booleans, text**
- **Sounds**
- **Images**
- **Video**

Question No: 33 (Marks: 2)
Why
hub is used in networks?

HUB: Hub is networking component which can be used to connect the networks and it can also be used to extend the size of networks.

Simply it can be explained as a common connection point for devices in a network. It contains multiple ports like 8port, 16 port , 23 port hubs

Question No: 34 (Marks: 2)
Write names of the DoS attack's phases?

DoS (Denail of service): DoS attach has in total 3 phases and below they are listed:

1. Search
2. Arm
3. Attack

Question No: 35 (Marks: 3)
What do you mean by FTP or File Transfer Protocol?

FTP: File transfer protocol was first introduced in 1973; it standardized the transfer of files between computers on a TCP/IP network (e.g internet).
It can download or upload files to a remote computer using the FTP protocol

Operations performed using FTP:
1. List, change, create folders on a remote computer
2. Upload and download files

Usage: Transferring Web content from the developer's PC to the Web server

Question No: 36 (Marks: 3)
How
many types of errors can be found during a program developement? List them.
1. Syntax errors
2. Semantic errors
3. Run-time errors

Question No: 37 (Marks: 3)
Write code in JavaScript to display the odd numbers between 20 to 100 using **FOR** statement.
Note: No need to write whole HTML program. Just JavaScript code of require part is require.

Question No: 38 (Marks: 5)
Why
the number of temporary workers are on the rise? Discuss main reasons?

Temporary workers:

Temporary workers are those workers which a company can hire to perform a certain task with in a defined time period.
Temporary workers are mostly consultants which move organization to organization to perform assigned workers.

Reasons:
1. Now-a-days; whole world is suffering from financial crisis, most of the companies have frozen there hiring, just in case they need a resource they are looking for a temporary worker for a specified time span to perform a specialized task and they just pay him for

that period of time.
2. Temporary workers are mostly consultants which have expertise in a certain field and they are considered specialists in that field.
3. Employer doesn't need to train the temporary worker.

Question No: 39 (Marks: 5)

Write the JavaScript code for the Function SumOddNumbers(maxNumber) that can add nonnegative odd numbers up to maxNumber and return their sum.

Java Script Code:

Question No: 40 (Marks: 10)

Define network organization? What are important features of network organization? (4+6)

Network Organization :

Network organization is an interfirm organization that is characterized by organic or informal social systems. A company or group of companies that has a minimum of formal structures and relies instead on the formation and dissolution of teams to meet specific objectives..

Features of Network Organization:

1. The organizations are learning that business can be done in a more effective manner if emphasis is placed upon cooperation, shared responsibility and networking:
- Within the organization
- And also with their customers and suppliers

2. Changes according to the demand of the times
3. Works effectively to meet the business goals of the organization
4. Everyone has a feeling that he/she is playing a major role in the organization which eventually gives a feel of ownership and because of that employee can put his best effort to accomplish a task.

Question No: 41 (Marks: 10)

Answer the following questions by looking at the code given below.

1- Which alert box will be displayed if variable 'marks' has value 75?

Ans: alert("Above average performance");

2- What is the range of the marks when the alert box displays the message "Average performance"?

Ans:
```
else if (marks > 50 && marks < 60)
{
alert("Average performance");
}
```

3- What is the range of the marks when the alert box displays the message "That's poor performance"?

Ans: The below mentioned alert box is displayed for all the marks less then or equal to 50
```
else
{
alert("That's poor performance");
}
```

4- Which alert box will be displayed if variable 'marks' has the value 100?

FINALTERM EXAMINATION
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Question No: 1 (Marks: 1) - Please choose one

It represents the _____ flow chart element.

- ► Process
- ► Input or Output
- ► Decision
- ► Connector

Question No: 2 (Marks: 1) - Please choose one

Website design should NOT be _____.

- ► Unified
- ► Complex
- ► Consistent
- ► Predictable

Question No: 3 (Marks: 1) - Please choose one

The most upper right pixel of the screen is of _____ color.

- ► Any
- ► Red
- ► Green
- ► Blue

Question No: 4 (Marks: 1) - Please choose one

Which of the following is NOT an example of Multi-user Operating system

- ► Windows
- ► Linux
- ► DOS
- ► Solaris

Question No: 5 (Marks: 1) - Please choose one

According to the heuristic, the number of defects remaining in a system after a given level of tests is proportional to _____.

- ► The number found on very first day.
- ► The number found during the development.
- ► The number found during the test.
- ► None of the given options.

Question No: 6 (Marks: 1) - Please choose one

Which one of the following is NOT a component of Rule Based System?

- ► Rule Compiler
- ► Rule Interpreter
- ► Rules Base
- ► Working Memory

Question No: 7 (Marks: 1) - Please choose one

In RDBMS, table rows are called _____.

- ► Field
- ► Record
- ► Column
- ► Query

Question No: 8 (Marks: 1) - Please choose one

_____ can be used for entering, editing, or viewing data, one record at a time.

- ► Queries
- ► Forms
- ► Reports
- ► None of the given options

Question No: 9 (Marks: 1) - Please choose one

Tribal flood network is a _____ software.

- ► DoS
- ► Scanning
- ► Utility
- ► None of the given options

Question No: 10 (Marks: 1) - Please choose one

Unlike virus, _____ is a stand-alone program.

- ► Trojan horse
- ► Logic bomb
- ► Worm
- ► Time bomb

Question No: 11 (Marks: 1) - Please choose one

The key responsibilities of a project manager is _____.

- ► Planning and tracking of the project
- ► Arranging of the appropriate resources
- ► Client relationship management
- ► All of the given options

Question No: 12 (Marks: 1) - Please choose one

The key responsibilities of the architect of the project is_____.

- ► Technology selection
- ► High-level design

- ► Makes certain that the implementation remains true to the design
- ► All of the given options

Question No: 13 (Marks: 1) - Please choose one

_____ is responsible for day to day operations.

- ► CEO
- ► COO
- ► CMSO
- ► Developer

Question No: 14 (Marks: 1) - Please choose one

onAbort , onError are the _____ of the image object.

- ► Event Handler
- ► Properties
- ► Methods
- ► None of the given options

Question No: 15 (Marks: 1) - Please choose one

The tasks performed to detect the exact location of defect is called_____

- ► Debugging
- ► Testing
- ► Repairing
- ► Monitoring

Question No: 16 (Marks: 1) - Please choose one

_____ routes the packets through the internet to go to their destination.

- ► Protocol
- ► TCP
- ► IP
- ► NIC

Question No: 17 (Marks: 1) - Please choose one

When we buy a software package, we do not really buy it, we just by a license that allows us to use it, the _____stays with the maker.

- ► Agreement
- ► Ownership
- ► Membership
- ► Software

Question No: 18 (Marks: 1) - Please choose one

Sequence of steps that is taken to solve a problem is called _____.

- ► Algorithm
- ► Operating System
- ► Application software
- ► None of the given options

Question No: 19 (Marks: 1) - Please choose one

A collection of data organized in such a way that the computer can quickly search for a desired data item is known as :

- ► Retrieving
- ► Database
- ► Information
- ► DBMS

Question No: 20 (Marks: 1) - Please choose one

To start an ordered list from 20 instead of 1, we will write

- ► <OL begin = “20">
- ► <OL initiate = “20">
- ► <OL start = “20">
- ► <OL from = “20">

Question No: 21 (Marks: 1) - Please choose one

_____ are personal computers that are designed to be easily transported and relocated.

- ► Desktops
- ► Portables
- ► Servers
- ► Workstations

Question No: 22 (Marks: 1) - Please choose one

To display a multi-line text area on the web page, we use ___ tag

- ► TEXT
- ► TEXTAREA
- ► INPUT
- ► INPUTAREA

Question No: 23 (Marks: 1) - Please choose one

The first component of an operating system that runs when a typical computer is turned ON, is:

- ► Device Manager
- ► File Manager
- ► Loader
- ► Device Driver

Question No: 24 (Marks: 1) - Please choose one

Pseudo code is written in

- ► Complex grammar
- ► Plain English
- ► JAVA
- ► Pseudo language

Question No: 25 (Marks: 1) - Please choose one

Instead of Full System, one can _____ results from part of a System

- ► Not achieve
- ► Mostly achieve
- ► Sometimes achieve
- ► Achieve

Question No: 26 (Marks: 1) - Please choose one

One can download or upload files to a remote computer using _____ protocol.

- ► HTTP
- ► SMTP
- ► FTP
- ► TELNET

Question No: 27 (Marks: 1) - Please choose one

Which protocol is used to control other computer from our own computer ?

- ► FTP
- ► NNTP
- ► TELNET
- ► None of the given choices

Question No: 28 (Marks: 1) - Please choose one

Which function returns a randomly selected floating point number between 0 and 1 ?

- ► floor(x)
- ► ceil(x)

► random()
► round(x)

Question No: 29 (Marks: 1) - Please choose one

Global variables can make the logic of a web page.

► Difficult to understand
► Easier to understand and maintain
► Difficult to reuse and maintain
► Difficult to understand, reuse and maintain

Question No: 30 (Marks: 1) - Please choose one

Mathematical functions in JavaScript, are accessed by referring to various methods of the _____ object.

► Math
► Calculate
► Compute
► None of the given options

Question No: 31 (Marks: 1)

What is the out put of the following JavaScript code ?

```
name=”Ali Akbar”;
document.write(name.charAt(4)) ;
```

Question No: 32 (Marks: 1)

What are the types of computer network according to the distance between nodes ?

The types of computer network according to the distance between nodes are:

1. **LAN**
2. **WAN**

Question No: 33 (Marks: 2)

What is meant by universal access of internet services ?

Universal access of internet services means same functionality to every one.

Question No: 34 (Marks: 2)

What is output of the following JavaScript code ?

```
Str=”Virtual University of Pakistan”;
document.write(str.substring(5,str.length)) ;
```

Question No: 35 (Marks: 3)

How can we include images in a web page using HTML and Java script?

Images in HTML

It is quite straight forward to include gif and jpg images in an HTML webpage using the <IMG> tag.
Format: <IMG src=URL, alt=text height=pixels width=pixels align="bottom/middle/top">

Images in Java script

Images in java script can be manipulated in many ways using the built in object image.
Properties: name,border,complete,height,width,hspace,bspace,lowsrc,src
Methods: none
Event handler: on Abort, on error, on load etc.

Question No: 36 (Marks: 3)

Define Primary key and Queries

Primary Key

Primary key is a field that uniquely identifies each record stored in a table.

Queries

Queries are used to view, change, and analyze data. They can be used to combine data from different table and extract the exact data that is desired.

Question No: 37 (Marks: 3)

What is a compound condition? Give example.

Compound condition is putting multiple statements at places where java script expects only one for those situations. This is done simply by enclosing any numbers of statements within curly braces, for example

```
{If ((day == "Sunday") // (day == "Saturday"))
(Bhola = "cool";
Mood = "great";
Clothing = "casual";}
```

Question No: 38 (Marks: 5)

Differentiate between For and While loop by writing the syntax of both loops.

The only difference between FOR loop and WHILE loop is the syntax for defining them. There is no performance difference at all.

Syntax of both loops
For(x = 99 ; x < 6000 : x = x + 1)
{ document . write (x) :}

While (tanks full == false)
{ tank = tank + bucket : }
Document.write ("tank is full now");

Question No: 39 (Marks: 5)

Can a human doctor be replaced by an Expert System? Give reasons to support your answer.

Yes, a human doctor can be replaced by an expert system because systems that, in some limited sense, can replace an expert. Expert system can act as intelligent assistant to human experts or serve as a resource to people who may not have access to expert. And also the purpose of all application (expert system) is not to replace our human experts but to make their knowledge and experience more widely available.

Question No: 40 (Marks: 10)

How education is changed because of advancements in the field of computing?

11. Distance learning has received a boost due to the low price of internet and the availability of web based interactive content.
12. Physical location is less of a hindrance now.
13. It has also become possible for students to interact with other students as well as teachers situated along distance from them.
14. Students enrolled in distance education programs have more control over what they want to learn, how and when they want to learn.
15. The lack of face to face interaction and immediate questions and answers reduce the amount of knowledge that can be transferred from the teacher to the students.
16. Computer based distance education may be the only source of high quality education for many, especially those in remote locations.
17. Distance education is the best mode of education and convenient, which has become more effective with the augmentation of computer based learning.

18. Distance learning is also world most important education system by which we can study at home and manage or get our study materials online.
19. Also Distance learning allows us to refer online quizzes, assignments timely.
20. By this field of computing one can get billions of knowledge by searching through internet.

Question No: 41 (Marks: 10)

Answer the following questions by looking at the code given below.

1- Which alert box will be displayed if variable 'marks' has value 75?
2- What is the range of the marks when the alert box displays the message “Average performance”?
3- What is the range of the marks when the alert box displays the message “That's poor performance”?
4- Which alert box will be displayed if variable 'marks' has the value 100?

```
1.    if (marks == 100)
2.      {
3.      alert("You've touched a century");
4.      }
5.    else if (marks >= 80 && marks < 100)
6.      {
7.      alert("That's good");
8.      }
9.    else if (marks >= 60 && marks < 80)
10.     {
11.     alert("Above average performance");
12.     }
13.   else if (marks > 50 && marks < 60)
14.     {
15.     alert("Average performance");
16.     }
17.   else
18.     {
19.     alert("That's poor performance");
20.     }
```

Answer

1. alert("Above average performance");
2. else if (marks >= 60 && marks < 80)
3. else if (marks <=50)
4. alert("You've touched a century");

21. CS-101 SOLVED PAPERS SOLVED BY AHSAN RANA

22. FINALTERM EXAMINATION
23. Fall 2008
24. CS101- Introduction to Computing (Session - 2)
25. Question No: 1 (Marks: 1) - Please choose one
26. Which function returns a randomly selected floating point number between
27. 0 and 1 ?
28. ► floor(x)
29. ► ceil(x)
30. Ans ► **random()(Correct)**
31. ► round(x)
32. Question No: 2 (Marks: 1) - Please choose one
33. Functions are also called:
34. ► Heuristics
35. ► Variables
36. ► Arrays
37. Ans ► Subprograms
38. Question No: 3 (Marks: 1) - Please choose one
39. In
40. JavaScript, each element of array can store data of type
41. ► A Number
42. ► An Array
43. ► A String variable
44. ► All of the given choices
45. Question No: 4 (Marks: 1) - Please choose one
46. The
47. weaknesses of the computer are:
48. ► Pattern recognition & Storage
49. ► Speed & Innovative ideas

50. Ans ► **Pattern recognition & Innovative ideas (Correct)**
51. ► Speed & Storage
52. Question No: 5 (Marks: 1) - Please choose one
53. Processed data is called _____.
54. Ans ► **Information (Correct)**
55. ► Data
56. ► Entity
57. ► Attribute
58. Question No: 6 (Marks: 1) - Please choose one
59. Many developers write the _____ first and then incrementally convert
60. each line into _____.
61. ► Real code & Pseudo code
62. ► Pseudo code & Real code
63. ► Real code & Artificial code
64. image ► **None of the given options (Correct)**
65. Question No: 7 (Marks: 1) - Please choose one
66. When we buy a software package, we do not really buy it, we just by a
67. license that allows us to use it, the _____stays with the maker.
68. ► Agreement
69. Ans ► **Ownership (Correct)**
70. ► Membership
71. ► Software
72. Question No: 8 (Marks: 1) - Please choose one
73. Name, Border, Source are the _____ of the image object.
74. ► Event Handler
75. Ans ► Properties
76. ► Methods
77. ► None of the given options
78. Question No: 9 (Marks: 1) - Please choose one
79. Using smart editors they can automatically color different parts of
80. statements in different colors e.g. HTML tags in _____ color.
81. ► Green

82. ► Grey
83. Ans ► **Blue (Correct)**
84. ► None of the given options
85. Question No: 10 (Marks: 1) - Please choose one
86. _____ is in Executive team.
87. Ans ► **Project Manager (Correct)**
88. ► CEO
89. ► Team Lead
90. ► Developer
91. Question No: 11 (Marks: 1) - Please choose one
92. Module level design and unit testing the responsibility of _____.
93. ► Team Lead
94. Ans ► **Developer (Correct)**
95. ► Project Manager
96. ► Quality Assurance Expert
97. Question No: 12 (Marks: 1) - Please choose one
98. _____ team is responsible for a project after the specification's
99. stage till the very end.
100. ► Executive
101. ► Architect
102. Ans ► **Development (Correct)**
103. ► HR
104. Question No: 13 (Marks: 1) - Please choose one
105. _____ waits for some time and then launch a function.
106. ► Timeout( )
107. Ans ► **setTimeout( ) (Correct)**
108. ► setTime( )
109. ► setTimeIn( )
110. Question No: 14 (Marks: 1) - Please choose one
111. Which of the following is NOT an event handler for image object?
112. ► onAbort
113. ► onError
114. ► onLoad
115. Ans ► **onUser (Correct)**

116. Question No: 15 (Marks: 1) - Please choose one
117. _____ is a field that uniquely identifies each record stored in a
118. table.
119. ► Composite Key
120. Ans ► **Primary key (Correct)**
121. ► Foreign key
122. ► None of the given options
123. Question No: 16 (Marks: 1) - Please choose one
124. Distance learning has got a boost due to the _____.
125. ► Easy communication
126. ► Online interactive contents
127. ► Flexibility
128. Ans ► **All of the given options (Correct)**
129. Question No: 17 (Marks: 1) - Please choose one
130. By
131. default in a web page Hyper Link for another web page is represented as
132. _____
133. ► Blue only
134. ► Black and Underlined
135. ► Blue and Bold
136. Ans ► **Blue and Underlined (Correct)**
137. Question No: 18 (Marks: 1) - Please choose one
138. To
139. store rounded number of 8.6 in a variable called "r_number", we write
140. _____.
141. ► r_number=Maths.round(8.6)
142. ► r_numbers=Maths.rounds(8.6)
143. ► r_number=Math.rounds(8.6)
144. Ans ► **r_number=Math.round(8.6) (Correct)**
145. Question No: 19 (Marks: 1) - Please choose one
146. Which one is the best option for designing a Medical Expert System?
147. ► Rule Based System

148. ► Genetic Algorithm
149. ► Fuzzy Logic
150. Ans► Neural Network
151. Question No: 20 (Marks: 1) - Please choose one
152. Variables allow us to manipulate data through the _____.
153. ► Actual Value
154. Ans ► **Reference (Correct)**
155. ► Length
156. ► Name
157. Question No: 21 (Marks: 1) - Please choose one
158. Which is correct?
159. Ans ► **onUnload (Correct)**
160. ► onUnLoad
161. ► onUNLOAD
162. ► All of the above
163. Question No: 22 (Marks: 1) - Please choose one
164. Capturing events and responding to them is called _____.
165. ► Function Handling
166. Ans ► **Event Handling (Correct)**
167. ► Event Procedure
168. ► All of the given option
169. Question No: 23 (Marks: 1) - Please choose one
170. _____ color should be used in background for a good presentation.
171. ► Light
172. Ans ► **Dark (Correct)**
173. ► Red
174. ► None of the given options
175. Question No: 24 (Marks: 1) - Please choose one
176. Which of the following symbol is used for multiple line comments in
177. JavaScript?
178. ► /
179. ► //
180. Ans ► **/* (Correct)**
181. ► //*

182. Question No: 25 (Marks: 1) - Please choose one
183. In
184. JavaScript, what will be the result of the follwoing operation
185. 79%3
186. ► 0
187. Ans ► 1 (Correct)
188. ► 2
189. ► 3
190. Question No: 26 (Marks: 1) - Please choose one
191. A
192. new cell using HTML is added in table row by
193. ► <TC>…</TC>
194. Ans ► <TR>…</TR> (Correct)
195. ► <TD>…</TD>
196. ► <NC>…</NC>
197. Question No: 27 (Marks: 1) - Please choose one
198. TCP stands for _____.
199. ► Total communication protocol
200. Ans ► Transmission control protocol (Correct)
201. ► Transfer control protocol
202. ► Transfer collection protocol
203. Question No: 28 (Marks: 1) - Please choose one
204. What is NOT a key factor while designing a website?
205. ► Usability
206. ► User-friendly
207. ► Consistency
208. Ans ► Complexity (Correct)
209. Question No: 29 (Marks: 1) - Please choose one
210. It represents the _____ flow chart element.
211. ► Process
212. Ans ► Input or Output
213. ► Decision
214. ► Connector
215. Question No: 30 (Marks: 1) - Please choose one
216. Vacuum tubes were replaced by ___
217. ► Punch cards

218. Ans ► **Transistors (Correct)**
219. ► Micro Processors
220. ► Resistors
221. Question No: 31 (Marks: 1)
222. When does recursion occur?
223. Question No: 32 (Marks: 1)
224. What are the types of computer network according to the distance between
225. nodes ?
226. Answer:
227. There are two types of networks.
228. 1. LAN (Local Area Network)
229. 2. WAN (Wide Area Network)
230. Question No: 33 (Marks: 2)
231. What is meant by semantic error ?
232. Answer:
233. Occur when a statement executes and has an effect not intended by the
234. programmer and Often times occur only in unusual & infrequent
235. circumstances
236. Question No: 34 (Marks: 2)
237. List
238. down the names of two array methods available in JavaScript.
239. Answer:
240. 1. sort( ) [sorts elements in alphabetical order]
241. 2. reverse( ) [Reverses the order of elements]
242. Question No: 35 (Marks: 3)
243. How can you define a consistent web design? Why is it needed?
244. Answer:
245. A consistent good designed website is generated for general public that
246. allows users to attain what they want as quickly as possible without
247. spending much effort.
248. A consistent good design assists the user in recovering from errors.

249. Question No: 36 (Marks: 3)

250. How can we include images in a web page using HTML and Java script?

251. Answer:

252. Image in HTML

253.* <IMG src=*URL*, alt=*text* height=*pixels* width=*pixels

254. align="*bottom*|*middle*|*top*">

255. Image in Javascript

256. Images in JavaScript can be manipulated in many ways using the built-in

257. object Image.

258. Additional properties to HTML are hspace, vspace & lowsrc.

259. Example: It can be used by many handlers like, onAbort, onLoad & onError

260. Question No: 37 (Marks: 3)

261. The

262. event handler attribute consists of three parts. Write about each of them.

263. Answer :

264. The identifier of the event handler

265. The equal sign

266. A string statement enclosed in double or single quotes.

267. Question No: 38 (Marks: 5)

268. What is a packet in the network environment? What kind of information

269. does it contain?

270. Answer:

271. • Packet is data chopped up into pieces in a network environment.

272. • These packets contain information about which computer sent the

273. data and where the data is going.

274. • If a packet runs into a problem during its trip, it can attempt to find

275. another route. When all the packets get where they are going, the

276. recipient computer puts them together again.

277. Question No: 39 (Marks: 5)

278. Suppose we have a big project. Draw hierarchy of the people involved in the

279. project?

280. Answer:

281. Please ignore small lines relating Sub Teams to subordinates due to

282. shortage of time. ABCD etc are connected directly to Team Lead 1,2 & 3

283. accordingly.

284. Executive Team
285. Project Manager
286. Clients Project
287. Manager
288. Sub Team Lead1
289. Project Architect
290. Sub Team Lead 3
291. Sub Team Lead 2
292. A B
293. C D E F
294. A B
295. C D

296. Question No: 40 (Marks: 10)

297. Write down HTML and JavaScript code for the following requirements:

298. Declare an Array with the identifier SUBJECT having length 5. Assign

299. following values to the array elements:

300. MIS, Java, Algorithms, Databases, C++

301. Show all values in reverse order.

302. Question No: 41 (Marks: 10)

303. How instant messaging works? Write the steps involved in this process.

304. Answer:

305. The Instant Messaging services available allow us to maintain a list of

306. people (contacts) that we interact with regularly. We can send instant

307. messages to any of the contacts in our list as long as that contact is online.
308. Following steps are involved in IM working.
309. 1. User commences the IM client.
310. 2. IM client finds the IM server & logs in.
311. 3. It launches communication info (IP address, etc) to the IM server.
312. 4. IM server finds user's contacts & sends him/her the communication
313. info.
314. 5. IM server also notifies the contacts that the user is online; sends
315. his/her communication info to them.
316. 6. The user's & the contact's IM clients are ready to communicate
317. directly (P2P).
318. 7. As new contact has come online, IM server informs them about the
319. user being online & vice versa.
320. 8. Multiple, real-time chat are possible.
321. 9. When the user logs-off, his/her IM client informs the IM server.
322. 10. IM server wipes away the temporary file and informs the user's
323. contact's about his/her 'offline' status.