

## Computer Science

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Time left 1:04:49

### Question 1

Not yet answered

Marked out of 1.00

Flag question

Which one of the following is asynchronous in message communication?

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

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### Question 2

Not yet answered

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Flag question

What is the time complexity order of binary searching algorithm?

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

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### Question 3

Not yet  
answered

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

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

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### Question 4

Not yet  
answered

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

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

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### Question 5

Not yet answered

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

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

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## Computer Science

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### Question 6

Not yet answered

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Flag question

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

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

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### Question 7

Not yet answered

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Flag question

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

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

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### Question 8

Not yet answered

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

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

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## Computer Science

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### Question 9

Not yet answered

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Flag question

What is the output of the following Java fragment code?

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

- ☐ a. 6
- ☐ b. 3
- ☐ c. 36
- ☐ d. 18

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Time left 1:03:18

### Question 10

Not yet answered

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Flag question

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

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

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### Question 11

Not yet answered

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

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

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### Question 12

Not yet answered

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

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

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### Question 13

Not yet answered

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Flag question

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

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

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### Question 14

Not yet answered

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

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

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### Question 15

Not yet answered

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

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

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## Computer Science

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### Question 16

Not yet answered

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Flag question

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

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

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### Question 17

Not yet answered

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

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

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### Question 18

Not yet answered

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What is the time complexity order of Quick sort algorithm?

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

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Time left 1:02:06

### Question 19

Not yet  
answered

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Which asymptotic notation describes worst case analysis?

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

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### Question 20

Not yet  
answered

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

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

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# Computer Science

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## Question 21

Not yet  
answered

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

```
for(int n = 1; n <= 18; n = n + 2)
```

```
{  
    if(n % 7 != 0)  
        cout<<n<<" ";  
    else  
        break;  
}
```

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

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### Question 22

Not yet answered

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Flag question

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

```
int a, b;  
a = 13;  
b = 9;  
while( (20 && 0) && (a > b) )  
{  
    cout<<"Plants are our life";  
}
```

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

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## Computer Science

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### Question 23

Not yet answered

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Flag question

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

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

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### Question 24

Not yet answered

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

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

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### Question 25

Not yet answered

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

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

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### Question 26

Not yet answered

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🚩 Flag question

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

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

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## Computer Science

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### Question 27

Not yet answered

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🚩 Flag question

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

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

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### Question 28

Not yet answered

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Given the schemas:BOOK (Book\_id, Title, Publisher\_name) BOOK\_AUTHOR (Book\_id, Author\_name) PUBLISHER (Name, Address, Phone) Which one of the following SQL is correct to delete the publisher named as 'XWZ' from the PUBLISHER table

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

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### Question 29

Not yet answered

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

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

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## Computer Science

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### Question 30

Not yet answered

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Flag question

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

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

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## Computer Science

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### Question 31

Not yet answered

Marked out of 1.00

Flag question

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

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

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### Question 32

Not yet answered

Marked out of 1.00

🚩 Flag question

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

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

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Time left 1:00:31

### Question 33

Not yet answered

Marked out of 1.00

🚩 Flag question

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

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

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## Computer Science

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Time left 1:00:26

### Question 34

Not yet answered

Marked out of 1.00

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

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

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### Question 35

Not yet  
answered

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🚩 Flag question

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

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

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### Question 36

Not yet  
answered

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

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

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### Question 37

Not yet  
answered

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1.00

🚩 Flag question

Which deadlock prevention mechanisms don't require timestamp?

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

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### Question 38

Not yet  
answered

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

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

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## Computer Science

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### Question 39

Not yet answered

Marked out of 1.00

Flag question

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

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

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### Question 40

Not yet answered

Marked out of 1.00

Flag question

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

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

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### Question 41

Not yet answered

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Flag question

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

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

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### Question 42

Not yet answered

Marked out of 1.00

Flag question

What is the output of the following Java fragment code?

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

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

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### Question 43

Not yet answered

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Flag question

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

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

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## Computer Science

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### Question 44

Not yet answered

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Flag question

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

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

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## Question 45

Not yet answered

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Flag question

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

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

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# Computer Science

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## Question 46

Not yet answered

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Flag question

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

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

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### Question 47

Not yet answered

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

- ☐ a. 1
- ☐ b. 0
- ☐ c. 3
- ☐ d. 2

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### Question 48

Not yet answered

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

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

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## Computer Science

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### Question 49

Not yet  
answered

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

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

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## Computer Science

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Time left 0:58:30

### Question 50

Not yet  
answered

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

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

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### Question 51

Not yet answered

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

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

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### Question 52

Not yet answered

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

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

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## Computer Science

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### Question 53

Not yet answered

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🚩 Flag question

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

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

Previous question

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## Computer Science

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Time left 0:58:07

### Question 54

Not yet answered

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Which layer uses port number to identify applications?

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

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### Question 55

Not yet answered

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

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

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### Question 56

Not yet answered

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Which statement is false about universal hashing technique?

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

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## Computer Science

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### Question 57

Not yet answered

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

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

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## Computer Science

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### Question 58

Not yet answered

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

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

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## Computer Science

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### Question 59

Not yet answered

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

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

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### Question 60

Not yet answered

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

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

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## Computer Science

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### Question 61

Not yet  
answered

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1.00

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

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

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## Computer Science

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Time left 0:57:26

### Question 62

Not yet  
answered

Marked out of  
1.00

🚩 Flag question

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

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

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## Computer Science

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Time left 0:57:21

### Question 63

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:57:15

### Question 64

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:57:10

### Question 65

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:57:05

### Question 66

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:56:58

### Question 67

Not yet answered

Marked out of 1.00

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

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

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## Computer Science

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Time left 0:56:51

### Question 68

Not yet answered

Marked out of 1.00

[Flag question](#)

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

$$P : S \rightarrow aSb,$$

$$S \rightarrow \lambda$$

- ☐ a. ab
- ☐ b.  $\lambda$
- ☐ c. a
- ☐ d. aabb

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## Computer Science

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Time left 0:56:40

### Question 69

Not yet answered

Marked out of 1.00

[Flag question](#)

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

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

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## Computer Science

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Time left 0:56:34

### Question 70

Not yet answered

Marked out of 1.00

[Flag question](#)

Consider the following fragment of C++ code:

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

For codes like the above one, which technique of code optimization is appropriate?

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

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# Computer Science

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## Question 71

Not yet answered

Marked out of 1.00

[Flag question](#)

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

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

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# Computer Science

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## Question 72

Not yet answered

Marked out of 1.00

[Flag question](#)

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

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

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## Computer Science

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Time left 0:56:18

### Question 73

Not yet answered

Marked out of 1.00

Flag question

A database management system (DBMS) has \_\_\_\_\_ to control locks.

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

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## Computer Science

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Time left 0:56:11

### Question 74

Not yet answered

Marked out of 1.00

Flag question

Which asymptotic notation describes average case analysis?

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

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## Computer Science

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Time left 0:55:48

### Question 75

Not yet  
answered

Marked out of  
1.00

Flag question

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

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

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## Computer Science

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Time left 0:55:41

### Question 76

Not yet  
answered

Marked out of  
1.00

Flag question

Which statement is false about programming language generations?

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

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## Computer Science

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Time left 0:55:36

### Question 77

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:55:29

### Question 78

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science


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Time left 0:55:15

### Question 79

Not yet answered

Marked out of 1.00

 Flag question

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

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

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## Computer Science

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Time left 0:55:09

### Question 80

Not yet answered

Marked out of 1.00

 Flag question

Linked list data structure is \_\_\_\_\_ type of data structure.

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

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## Computer Science

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Time left 0:55:04

### Question 81

Not yet answered

Marked out of 1.00

 Flag question

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

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

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### Question 82

Not yet answered

Marked out of 1.00

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

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

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## Computer Science

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Time left 0:54:49

### Question 83

Not yet answered

Marked out of 1.00

[Flag question](#)

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

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

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# Computer Science

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## Question 84

Not yet answered

Marked out of 1.00

Flag question

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

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

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# Computer Science

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## Question 85

Not yet answered

Marked out of 1.00

Flag question

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

- ☐ a.  $\rightarrow$
- ☐ b.  $\forall$
- ☐ c.  $\exists$
- ☐ d.  $\wedge$

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## Computer Science


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Time left 0:54:31

### Question 86

Not yet answered

Marked out of 1.00

 Flag question

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

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

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## Computer Science


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Time left 0:54:25

### Question 87

Not yet answered

Marked out of 1.00

 Flag question

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

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

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## Computer Science

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Time left 0:54:18

### Question 88

Not yet  
answered

Marked out of  
1.00

🚩 Flag question

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

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

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## Computer Science

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Time left 0:54:11

### Question 89

Not yet  
answered

Marked out of  
1.00

🚩 Flag question

Which one of the following is not correct about threads?

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

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## Computer Science

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Time left 0:54:06

### Question 90

Not yet answered

Marked out of 1.00

Flag question

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

```
int a = 6, b = 8;  
int x = 2, y = 4;  
int c = (x > y ? (a--, x) : (b--, y));  
cout<<"a= "<<a;  
cout<<" b= "<<b;  
cout<<" c= "<<c;
```

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

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## Computer Science

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Time left 0:54:01

### Question 91

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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### Question 92

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:53:45

### Question 93

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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### Question 94

Not yet answered

Marked out of 1.00

Flag question

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



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

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## Computer Science

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Time left 0:53:32

### Question 95

Not yet answered

Marked out of 1.00

Flag question

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

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

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## Computer Science

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Time left 0:53:19

### Question 96

Not yet answered

Marked out of 1.00

🚩 Flag question

Which one of the following is the smallest heading tag?

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

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## Computer Science

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Time left 0:53:14

### Question 97

Not yet answered

Marked out of 1.00

🚩 Flag question

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

- ☐ a. 1
- ☐ b. 6
- ☐ c. 30
- ☐ d. 36

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# Computer Science

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Time left 0:53:09

## Question 98

Not yet  
answered

Marked out of  
1.00

🚩 Flag question

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

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

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# Computer Science

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Time left 0:53:03

## Question 99

Not yet answered

Marked out of 1.00

Flag question

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

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

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# Computer Science

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Time left 0:52:57

## Question 100

Not yet answered

Marked out of 1.00

Flag question

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

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

Previous question

Finish exam ...