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**Computer Science**  
**7 Jan 2022**





Participant ID	
Participant Name	
Test Center Name	
Test Date	07/01/2022
Test Time	9:00 AM - 11:00 AM
Subject	Junior Engineer Trainee - Computer Science

Section : General Awareness & Reasoning

**Q.1** According to the latest round of National Family Health Survey (NFHS 2019-21) of India, the number of females per thousand males is \_\_\_\_\_.

- Ans
- 1. 980
  - 2. 840
  - 3. 1,020
  - 4. 1,100

Question ID : 7532297785  
Status : Answered  
Chosen Option : 1

**Q.2** For the food industry in India, the Central Government has permitted \_\_\_\_\_ FDI.

- Ans
- 1. 100%
  - 2. 49%
  - 3. 99%
  - 4. 33%

Question ID : 7532297790  
Status : Answered  
Chosen Option : 1

**Q.3** During the 1857 revolt, which of the following was the prominent leader in Lucknow?

- Ans
- 1. Kunwar Singh
  - 2. Mangal Pandey
  - 3. Begum Hazrat Mahal
  - 4. General Bakht Khan

Question ID : 7532297787  
Status : Answered  
Chosen Option : 3

Q.4 Fundamental duties were added to the Indian Constitution vide the \_\_\_\_\_ Amendment Act.

- Ans
- 1. 31st
  - 2. 19th
  - 3. 45th
  - 4. 42nd

Question ID : 7532297792  
Status : Answered  
Chosen Option : 4

Q.5 Some new sports were introduced in the Tokyo Summer Olympics 2020. Which of the following four is a set of newly added sports?

- Ans
- 1. Skateboarding, sport climbing, surfing and karate
  - 2. Horse riding, skateboarding, Gatka, and Javelin Throw
  - 3. Horse riding, skateboarding, Gatka and sport climbing
  - 4. Horse riding, tug war, Gatka and Kabaddi

Question ID : 7532297786  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.6 Time versus rainfall intensity plot is known as:

- Ans
- 1. retrograph
  - 2. Isograph
  - 3. hydrograph
  - 4. hyetograph

Question ID : 7532297791  
Status : Answered  
Chosen Option : 3

Q.7 Which of the following statements is correct?

- Ans
- 1. The President of India is ex officio Chairman of the Rajya Sabha.
  - 2. The Vice-President of India is ex officio Chairman of the Rajya Sabha.
  - 3. The Attorney-General of India is ex officio Chairman of the Rajya Sabha.
  - 4. The Prime Minister of India is ex officio Chairman of the Rajya Sabha.

Question ID : 7532297793  
Status : Answered  
Chosen Option : 2

Q.8 What is the population density of India, according to the 2011 Census?

Ans  1. 382

2. 292

3. 428

4. 410

Question ID : 7532297789

Status : Answered

Chosen Option : 1

Q.9 Comptroller and Auditor General of India is the Constitutional Authority in India, established under \_\_\_\_\_ of the Constitution of India.

Ans  1. Article 280

2. Article 338

3. Article 279

4. Article 148

Question ID : 7532297794

Status : Answered

Chosen Option : 4

Q.10 Which of the following buildings was NOT built by Emperor Akbar?

Ans  1. Allahabad fort

2. Red fort

3. Lahore fort

4. Agra fort

Question ID : 7532297788

Status : Answered

Chosen Option : 2

Q.11 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- 1) All men are white.
- 2) All white are tall.

Conclusions:

- I. All tall are men.
- II. All men are tall.

Ans  1. Only conclusion II follows

2. Neither conclusion I nor II follows

3. Only conclusion I follows

4. Both conclusions I and II follow

Question ID : 7532297796

Status : Answered

Chosen Option : 1

Q.12 'Hen' is related to 'Cackle' in the same way as 'Goat' is related to '\_\_\_\_\_ '.

- Ans
- 1. Mew
  - 2. Grunt
  - 3. Howl
  - 4. Bleat

Question ID : 7532297801  
Status : Answered  
Chosen Option : 4

Q.13 If 'A @ B' means 'A is the husband of B', 'A % B' means 'A is the sister of B', and 'A & B' means 'A is the son of B', then how is Z can be related to W when 'W & X @ Y % Z'?

- Ans
- 1. Nephew
  - 2. Brother
  - 3. Maternal uncle
  - 4. Paternal uncle

Question ID : 7532297800  
Status : Answered  
Chosen Option : 3

Q.14 Six players (M, N, O, P, Q and R) are standing in a row on a cricket pitch facing the coach. N is standing to the immediate right of Q, who is second to the left of R. If P is second to the left of N, and O is third to the right of N, then what is the standing position of M?

- Ans
- 1. Exactly between P and N
  - 2. To the immediate right of R
  - 3. Exactly between Q and O
  - 4. To the immediate left of P

Question ID : 7532297795  
Status : Answered  
Chosen Option : 3

Q.15 Select the letter from among the given options that can replace the question mark (?) in the following series.

L, O, S, ?, A, E, J

- Ans
- 1. X
  - 2. W
  - 3. Y
  - 4. V

Question ID : 7532297797  
Status : Answered  
Chosen Option : 1

**Q.16** When Sheela was going to school from her house at 7 a.m., her shadow was to her left. In which direction is her house from the school?

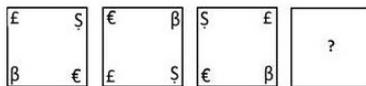
- Ans**
- 1. East
  - 2. West
  - 3. South
  - 4. North

Question ID : 7532297799

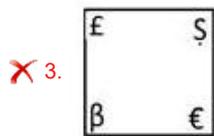
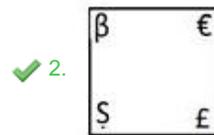
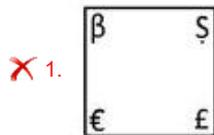
Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.17** Select the figure from among the given options that can replace the question mark (?) in the following series.



**Ans**



Question ID : 7532297802

Status : **Answered**

Chosen Option : 2

**Q.18** What will be the approximate value of the following expression?

$$36.04 \div 5.98 \times 8.96 - 24.06 = ?$$

- Ans**
- 1. 30.50
  - 2. 29.50
  - 3. 31
  - 4. 30

Question ID : 7532297804

Status : **Answered**

Chosen Option : 4

**Q.19** Select the number from among the given options that can replace the question mark (?) in the following series.

27, 41, 54, 68, 81, ?

- Ans**
- 1. 93
  - 2. 96
  - 3. 94
  - 4. 95

Question ID : 7532297803  
Status : Answered  
Chosen Option : 4

**Q.20** In a certain code language, FRIGHTEN is written as DTGIFVCP. How will MATTRESS be written in that language?

- Ans**
- 1. KDRUPHQT
  - 2. KCRVPGQU
  - 3. JBQUOFPT
  - 4. JCQVOGPU

Question ID : 7532297798  
Status : Answered  
Chosen Option : 2

Section : Subject Content

**Q.1** How many types of mapping ratios are there in database?

- Ans**
- 1. Five
  - 2. Six
  - 3. Four
  - 4. Three

Question ID : 7532297880  
Status : Answered  
Chosen Option : 3

**Q.2** Select the option that states whether the given statements are true or false.

- a) Heapsort algorithm can manipulate tree objects as well as lists objects.
- b) Radix sort is a linear sorting algorithm.
- c) Bucket sort is mainly useful when input is non-uniformly distributed over a range.

- Ans**
- 1. a-false, b-false, c-true
  - 2. a-false, b-true, c-true
  - 3. a-true, b-true, c-false
  - 4. a-true, b-false, c-true

Question ID : 7532297862  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.3 In which of the sorting strategies are problems recursively split into sub-problems till you just have single items that are trivial to sort, and then the sorted 'parts' back together in a way that preserves the sorting?

- Ans
- 1. Selection sorting
  - 2. Enumeration sorting
  - 3. Divide and conquer
  - 4. Exchange sorting

Question ID : 7532297860  
Status : Answered  
Chosen Option : 3

Q.4 How many layers are there in ISO-OSI reference model?

- Ans
- 1. Four
  - 2. Five
  - 3. Six
  - 4. Seven

Question ID : 7532297825  
Status : Answered  
Chosen Option : 4

Q.5 Match the columns.

Topology	Description
a) Physical topology	i) In this, every device has a dedicated point-to-point link to every other device.
b) Bus topology	ii) It is an actual layout of the computer cables and other network devices.
c) Star topology	iii) In this topology, one long cable acts as a backbone to link all the devices in a network.
d) Mesh topology	iv) In this topology, each device has a dedicated point-to-point link only to a central controller, usually called a hub.

- Ans
- 1. a-ii, b-i, c-iv, d-iii
  - 2. a-i, b-iii, c-iv, d-ii
  - 3. a-ii, b-iv, c-iii, d-i
  - 4. a-ii, b-iii, c-iv, d-i

Question ID : 7532297824  
Status : Answered  
Chosen Option : 4

Q.6 Match the columns.

Graph type	Description
a) Directed graph (di-graph)	i) Edges are both directed or undirected.
b) Undirected graph	ii) All the edges are directed.
c) Mixed graph	iii) All the edges are undirected.

- Ans
- 1. a-ii, b-i, c-iii
  - 2. a-iii, b-ii, c-i
  - 3. a-i, b-iii, c-ii
  - 4. a-ii, b-iii, c-i

Question ID : 7532297864  
Status : Answered  
Chosen Option : 4

Q.7 A complete IPX address is \_\_\_\_ hexadecimal number.

- Ans
- 1. a 16-byte
  - 2. an 08-byte
  - 3. a 12-byte
  - 4. a 32-byte

Question ID : 7532297827  
Status : Answered  
Chosen Option : 3

Q.8 Match the columns.

Queue operation	Description
a) enqueue()	i) Checks if the queue is empty.
b) dequeue()	ii) Adds an item to the queue.
c) isfull()	iii) Removes an item from the queue.
d) isempty()	iv) Checks if the queue is full.

- Ans
- 1. a-i, b-iii, c-iv, d-ii
  - 2. a-ii, b-i, c-iv, d-iii
  - 3. a-ii, b-iii, c-iv, d-i
  - 4. a-ii, b-iv, c-iii, d-i

Question ID : 7532297848  
Status : Answered  
Chosen Option : 3

Q.9 Which of the following is a prefix expression?

Ans  1.  $(a + b) * (c - d)$

2.  $a b + c d - *$

3.  $+ a * b c$

4.  $a b c * +$

Question ID : 7532297846

Status : Answered

Chosen Option : 3

Q.10 Which of the following computer networks is completely wireless?

Ans  1. WAN

2. WLAN

3. MAN

4. GAN

Question ID : 7532297822

Status : Answered

Chosen Option : 2

Q.11 Which of the following is NOT typical CMOS-related symptom?

Ans  1. CMOS mismatch error occurs.

2. Backup disk not running properly.

3. Changes to COMS are note saved after rebooting.

4. System appears to be performing poorly.

Question ID : 7532297869

Status : Answered

Chosen Option : 4

Q.12 Which of the following is an Abstract Data Type (ADT)?

Ans  1. float

2. stack

3. char

4. int

Question ID : 7532297844

Status : Answered

Chosen Option : 2

Q.13 Select the option that states whether the given statements are true or false.

- a) A protocol is a set of rules that governs data communication.
- b) The 'message' is the information to be communicated.
- c) The transmission medium is the physical path through which a message travels from sender to receiver.

- Ans
- 1. a-false, b-true, c-true
  - 2. a-true, b-false, c-true
  - 3. a-false, b-false, c-true
  - 4. a-true, b-true, c-true

Question ID : 7532297811  
Status : Answered  
Chosen Option : 4

Q.14 Match the columns.

Common sorting strategy	Description
a) Enumeration sorting	i) Take the items one at a time and insert them into an initially empty data structure such that the data structure continues to be sorted at each stage.
b) Exchange sorting	ii) Consider all items. If we know that there are N items which are smaller than the one we are currently considering, then its final position will be at number N + 1.
c) Selection sorting	iii) If two items are found to be out-of-order, exchange them. Repeat till all items are in order.
d) Insertion sorting	iv) Find the smallest item, put it in the first position, find the smallest of the remaining items, put it in the second position.

- Ans
- 1. a-ii, b-iv, c-iii, d-i
  - 2. a-ii, b-iii, c-iv, d-i
  - 3. a-i, b-iii, c-iv, d-ii
  - 4. a-ii, b-i, c-iv, d-iii

Question ID : 7532297859  
Status : Answered  
Chosen Option : 2

Q.15 \_\_\_\_\_ is a collection of programs that enables users to create and maintain a database.

- Ans
- 1. A data dictionary
  - 2. A DBMS
  - 3. An operating system
  - 4. A database

Question ID : 7532297877  
Status : Answered  
Chosen Option : 2

Q.16 Select the option that states whether the given statements are true or false.

- a) A full binary tree can be generated using post-order traversal.
- b) A full binary tree can be generated using pre-order traversal.

- Ans
- 1. a-false, b-false
  - 2. a-true, b-true
  - 3. a-true, b-false
  - 4. a-false, b-true

Question ID : 7532297867  
Status : Answered  
Chosen Option : 4

Q.17 Match the columns.

Network term	Details/Example
a) LAN	i) Internet Browser
b) WAN	ii) Wireless LAN
c) WLAN	iii) Wide Area Network
d) Server	iv) Local Area Network
e) Client	v) A powerful computer that provides a service, such as centralised file storage

- Ans
- 1. a-iv, b-iii, c-ii, d-v, e-i
  - 2. a-iv, b-iii, c-i, d-v, e-ii
  - 3. a-v, b-iii, c-ii, d-iv, e-i
  - 4. a-i, b-ii, c-iii, d-v, e-iv

Question ID : 7532297805  
Status : Answered  
Chosen Option : 1

Q.18 Consider a LAN which follows mesh topology. If there are 13 nodes, then what will be the maximum number of links (connections) in the network?

- Ans
- 1. 15
  - 2. 87
  - 3. 21
  - 4. 78

Question ID : 7532297821  
Status : Answered  
Chosen Option : 4

Q.19 Which of the given statements are true to troubleshoot the completely dead floppy disk drive?

- a) Check the signal cable.
- b) Replace the floppy disk drive.
- c) Check the drive power.

- Ans
- 1. a-true, b-true, c-false
  - 2. a-true, b-false, c-true
  - 3. a-false, b-true, c-true
  - 4. a-true, b-true, c-true

Question ID : 7532297873  
Status : Answered  
Chosen Option : 3

Q.20 Match the correct options for phoenix BIOS post codes.

Code	Description
a) 8C	i) Initialises the motherboard chipset
b) B0	ii) Initialises floppy controller
c) E	iii) Checks for error

- Ans
- 1. a-i, b-iii, c-ii
  - 2. a-ii, b-i, c-iii
  - 3. a-iii, b-ii, c-i
  - 4. a-ii, b-iii, c-i

Question ID : 7532297871  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.21 Which of the following is NOT a fibre optics propagation mode?

- Ans
- 1. Single-mode
  - 2. Step-index
  - 3. Semi-mode
  - 4. Graded-index

Question ID : 7532297819  
Status : Answered  
Chosen Option : 3

Q.22 What is the output of the following C language program?

```
#include<stdio.h>
int main()
{
    int n11=0,n22=1,n33,i,number;
    number=5;
    printf("\n%d %d",n11,n22);
    for(i=2;i<number;++i)
    {
        n33=n11+n22;
        printf(" %d",n33);
        n11=n22;
        n22=n33;
    }
    return 0;
}
```

- Ans
- 1. 0 1 2 3 4
  - 2. 0 1 1 2 3
  - 3. 0 1 2 2 3
  - 4. 0 0 1 1 2

Question ID : 7532297847  
Status : Answered  
Chosen Option : 2

Q.23 Which of the following is a valid name of an identifier in C programming language?

- Ans
- 1. Main
  - 2. Int
  - 3. Studname
  - 4. Struc

Question ID : 7532297840  
Status : Answered  
Chosen Option : 3

Q.24 Which of the following is NOT a mechanical keyboard switch?

- Ans
- 1. Popup switch
  - 2. Tactile switch
  - 3. Clicky switch
  - 4. Linear switch

Question ID : 7532297876  
Status : Not Attempted and  
Marked For Review  
Chosen Option : --

Q.25 A card which is provided with a port for the establishment of dedicated communication is known as a \_\_\_\_\_ .

- Ans
- 1. multimedia card
  - 2. network interface card (NIC)
  - 3. transmission card
  - 4. broadcasting card

Question ID : 7532297834  
Status : Answered  
Chosen Option : 2

Q.26 When is a DBMS NOT used?

- Ans
- 1. When enforcing integrity constraints on the database.
  - 2. When providing backup and recovery services.
  - 3. If the file system is not able to handle the complexity of data because of modelling limitations.
  - 4. When providing multiple interfaces to different classes of users.

Question ID : 7532297879  
Status : Answered  
Chosen Option : 3

Q.27 Five people A, B, C, D and E are standing in a queue. C is standing between A and E. A is just behind B, and B is second in the queue. Who is second last in the queue?

- Ans
- 1. A
  - 2. B
  - 3. D
  - 4. C

Question ID : 7532297853  
Status : Answered  
Chosen Option : 4



Q.28 Match the columns.

Array operation	Description
a) Traverse	i) Updates an element at the given index.
b) Insertion	ii) Prints all the array elements one by one.
c) Search	iii) Adds an element at the given index.
d) Update	iv) Searches an element using the given index or by the value.

- Ans
- 1. a-ii, b-i, c-iv, d-iii
  - 2. a-i, b-iii, c-iv, d-ii
  - 3. a-ii, b-iv, c-iii, d-i
  - 4. a-ii, b-iii, c-iv, d-i

Question ID : 7532297842  
Status : Answered  
Chosen Option : 4

Q.29 Which of the following sorting algorithms follows exchange sort approach?

- Ans
- 1. Tree sort
  - 2. Insertion sort
  - 3. Selection sort
  - 4. Bubble sort

Question ID : 7532297861  
Status : Answered  
Chosen Option : 3

Q.30 What is the category of the given SQL statements?

ALTER TABLE ADD (DOB DATE)

- Ans
- 1. DCL
  - 2. TCL
  - 3. DDL
  - 4. DML

Question ID : 7532297881  
Status : Answered  
Chosen Option : 3

Q.31 Which of the following characteristics does NOT affect the data communications system?

- Ans
- 1. Delivery
  - 2. Accuracy
  - 3. Cost
  - 4. Timeliness

Question ID : 7532297808  
Status : Answered  
Chosen Option : 3

Q.32 Select the option that states whether the given statements are true or false.

- a) A 'a+b' is an example of postfix expression.
- b) Stacks are, on an abstract level, equivalent to linked lists. They are the ideal data structure to model a First-In-Last-Out (FILO), or Last-In-First-Out (LIFO), strategy in search.
- c) A queue is a data structure used to model a First-In-First-Out (FIFO) strategy.

- Ans
- 1. a-false, b-true, c-false
  - 2. a-false, b-true, c-true
  - 3. a-true, b-true, c-true
  - 4. a-false, b-false, c-true

Question ID : 7532297845  
Status : Answered  
Chosen Option : 2

Q.33 Select the option that states whether the given statements are true or false.

- a) Distributed networks uses distributed processing, in which a task is divided among multiple computers.
- b) A network reliability is measured by the frequency of failure, the time it takes a link to recover from a failure, and the network's robustness in a catastrophe.

- Ans
- 1. a-true, b-true
  - 2. a-false, b-false
  - 3. a-false, b-true
  - 4. a-true, b-false

Question ID : 7532297813  
Status : Answered  
Chosen Option : 1

Q.34 What is the IBM beep code for keyboard error?

- Ans
- 1. 3-3-4
  - 2. 2-2-2
  - 3. 2-1-1
  - 4. 1-4-4

Question ID : 7532297872  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.35 Which of the following network topologies uses a central device called a central hub to which each node connects?

- Ans  1. Hybrid  
 2. Star  
 3. Mesh  
 4. Bus

Question ID : 7532297823  
Status : Answered  
Chosen Option : 2

Q.36 Match the columns.

Linked list operation	Description
a) Display	i) Deletes an element at the beginning of the list.
b) Search	ii) Displays the complete list.
c) Delete	iii) Searches an element using the given key.
d) Deletion	iv) Deletes an element using the given key.

- Ans  1. a-ii, b-iii, c-iv, d-i  
 2. a-ii, b-iv, c-iii, d-i  
 3. a-i, b-iii, c-iv, d-ii  
 4. a-ii, b-i, c-iv, d-iii

Question ID : 7532297854  
Status : Answered  
Chosen Option : 1

Q.37 The disk partition enables the user to divide a physical disk into \_\_\_\_\_.

- Ans  1. physical sub-sections  
 2. logical sections  
 3. physical blocks  
 4. physical clusters

Question ID : 7532297874  
Status : Answered  
Chosen Option : 2

Q.38 What happens if the angle of incidence  $I$  (the angle the ray makes with the line perpendicular to the interface between the two substances) is less than the critical angle?

- Ans
- 1. The ray terminates.
  - 2. The ray refracts and moves closer to the surface.
  - 3. The ray reflects (makes a turn) and travels again in the denser substance.
  - 4. The ray bends along the surface.

Question ID : 7532297818  
Status : Answered  
Chosen Option : 2

Q.39 Select the option that states whether the given statements are true or false.

- a) In sequential search method, the list or array is traversed sequentially and every element is checked.
- b) Interval searching algorithms are less efficient than Linear Search as they repeatedly target the centre of the search structure and divide the search space in half.

- Ans
- 1. a–false, b–true
  - 2. a–false, b–false
  - 3. a–true, b–true
  - 4. a–true, b–false

Question ID : 7532297858  
Status : Answered  
Chosen Option : 3

Q.40 What is queue overflow?

- Ans
- 1. Results from deleting last element from a queue.
  - 2. Results from deleting elements from a full queue.
  - 3. Results from inserting last element into a queue.
  - 4. Results from inserting, If the size of the queue is 10 and we try to add the 11th element in it.

Question ID : 7532297882  
Status : Answered  
Chosen Option : 4

Q.41 Which of the following protocols is NOT defined at transport layer of TCP/IP?

- Ans
- 1. Internetworking Protocol
  - 2. Transmission Control Protocol
  - 3. User Datagram Protocol
  - 4. Stream Control Transmission Protocol

Question ID : 7532297826  
Status : Answered  
Chosen Option : 4

Q.42 Which of the following is a container that can hold a fixed number of items and these items should be of the same type?

- Ans  1. Array  
 2. Constant  
 3. Set  
 4. Bag

Question ID : 7532297836  
Status : Answered  
Chosen Option : 1

Q.43 Match the columns.

Type	Data type
a) Basic data type	i) void
b) Derived data type	ii) double
c) Enumeration data type	iii) union
d) Void data type	iv) enum

- Ans  1. a-i, b-iii, c-iv, d-ii  
 2. a-ii, b-i, c-iv, d-iii  
 3. a-ii, b-iv, c-iii, d-i  
 4. a-ii, b-iii, c-iv, d-i

Question ID : 7532297839  
Status : Answered  
Chosen Option : 4

Q.44 A circular queue is the extended version of a regular queue where the last element is connected to the \_\_\_\_\_ element.

- Ans  1. second  
 2. third  
 3. fourth  
 4. first

Question ID : 7532297852  
Status : Answered  
Chosen Option : 4

Q.45 Which of the following transmission modes guarantees that the data arrives at a fixed rate?

- Ans
- 1. Asynchronous transmission
  - 2. Synchronous transmission
  - 3. Isochronous transmission
  - 4. Parallel transmission

Question ID : 7532297814  
Status : Answered  
Chosen Option : 2

Q.46 Which of the following terms refers to two or more connected computers that can share resources such as data, a printer, an internet connection, applications, or a combination of these resources?

- Ans
- 1. Association
  - 2. Group
  - 3. Cluster
  - 4. Network

Question ID : 7532297806  
Status : Answered  
Chosen Option : 4

Q.47 In which of the following methods does the operating system collect the deleted space from time-to-time onto the availability list?

- Ans
- 1. Garbage collection
  - 2. Space collection
  - 3. Memory enhancer
  - 4. Memory collection

Question ID : 7532297857  
Status : Answered  
Chosen Option : 1

Q.48 Which of the following is NOT a property of a priority queue?

- Ans
- 1. Every item has a priority associated with it.
  - 2. If two elements have the same priority, they are served according to their order in the queue.
  - 3. An element with high priority is dequeued before an element with low priority.
  - 4. Few items may not have priority associated with it.

Question ID : 7532297851  
Status : Answered  
Chosen Option : 4

Q.49 Select the option that states whether the given statements are true or false.

- a) DBMS\_DESCRIBE is an oracle package used to describe the arguments of a stored procedure.
- b) CALENDAR is an oracle package used to provide calendar maintenance functions.

- Ans
- 1. a-false, b-true
  - 2. a-false, b-false
  - 3. a-true, b-false
  - 4. a-true, b-true

Question ID : 7532297883

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.50 Which of the following is NOT a step of a reliable troubleshooting procedure?

- Ans
- 1. First of all, appoint third party service expert.
  - 2. Define your symptoms.
  - 3. Identify and isolate the potential source (or location) of the problem.
  - 4. Replace or repair the suspected component or subassembly and then reset the system.

Question ID : 7532297868

Status : Answered

Chosen Option : 1

Q.51 Select the class of the following address.

11000001 10000011 00011011 11111111

- Ans
- 1. Class B address
  - 2. Class D address
  - 3. Class E address
  - 4. Class C address

Question ID : 7532297829

Status : Answered

Chosen Option : 4

Q.52 Which of the following network topologies uses token passing technique?

- Ans
- 1. Star
  - 2. Ring
  - 3. Mesh
  - 4. Bus

Question ID : 7532297820

Status : Answered

Chosen Option : 2

Q.53 When does the 'sector not found' message usually occur?

- Ans
- 1. Disk drive signal cable issue
  - 2. Drive disk does not pass its POST test
  - 3. Media failure
  - 4. CMOS setup error

Question ID : 7532297875  
Status : Answered  
Chosen Option : 2

Q.54 Who is responsible for authorising access to the database, for coordinating and monitoring its use, and for acquiring software and hardware resources as needed?

- Ans
- 1. Sophisticated end users
  - 2. Data administrator
  - 3. Database administrator
  - 4. Parametric end users

Question ID : 7532297878  
Status : Answered  
Chosen Option : 3

Q.55 Select the option that states whether the given statements are true or false.

- a) A row trigger is fired each time the table is affected by the triggering statement.
- b) A statement trigger is fired once on behalf of the triggering statement, regardless of the number of rows in the table that the triggering statement affects.
- c) A before trigger executes the trigger action after the triggering statement.

- Ans
- 1. a-false, b-true, c-false
  - 2. a-true, b-false, c-false
  - 3. a-true, b-true, c-true
  - 4. a-true, b-true, c-false

Question ID : 7532297884  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.56 Which of the following data structures is used in standard implementation of Depth First Search (DFS) algorithm?

- Ans
- 1. Circular link list
  - 2. Tree
  - 3. Queue
  - 4. Stack

Question ID : 7532297866  
Status : Answered  
Chosen Option : 3

Q.57 Which of the following is NOT a valid data transmission mode?

- Ans
- 1. Full-duplex
  - 2. Semi-duplex
  - 3. Simplex
  - 4. Half-duplex

Question ID : 7532297812  
Status : Answered  
Chosen Option : 2

Q.58 Select the option that states whether the given statements are true or false.

- a) A subnet mask is a 32-bits address used to distinguish between a network address and a host address in an IP address.  
b) In IPv4 addressing, a block of addresses can be defined as x.y.z.t/n in which x.y.z.t defines one of the addresses and the /n defines the mask.

- Ans
- 1. a-true, b-false
  - 2. a-false, b-false
  - 3. a-false, b-true
  - 4. a-true, b-true

Question ID : 7532297828  
Status : Answered  
Chosen Option : 4

Q.59 What is FIFO?

- Ans
- 1. First Insert, First Output
  - 2. First In, Full Out
  - 3. First Input, First Output
  - 4. First In, First Out

Question ID : 7532297850  
Status : Answered  
Chosen Option : 4

Q.60 Which of the following is a derived data type in C language?

- Ans
- 1. Char
  - 2. Float
  - 3. Pointer
  - 4. Int

Question ID : 7532297838  
Status : Answered  
Chosen Option : 3

Q.61 Which of the given protocols is/are random access protocols?

- a) CSMA/CD
- b) TDMA

- Ans
- 1. Only a
  - 2. Only b
  - 3. Neither a nor b
  - 4. Both a and b

Question ID : 7532297831  
Status : Answered  
Chosen Option : 1

Q.62 Linked list can be defined as a collection of objects called \_\_\_\_\_ that are randomly stored in the memory.

- Ans
- 1. nodes
  - 2. blocks
  - 3. pointers
  - 4. data

Question ID : 7532297855  
Status : Answered  
Chosen Option : 3

Q.63 Which of the following is one of the DISADVANTAGES of a computer network?

- Ans
- 1. It is highly flexible.
  - 2. It lacks Independence.
  - 3. It helps you to share printers, scanners.
  - 4. It helps to instantly access information.

Question ID : 7532297807  
Status : Answered  
Chosen Option : 2

Q.64 In queue, we always dequeue (or access) data, pointed by \_\_\_\_\_ pointer and while enqueueing (or storing) data in the queue we take the help of \_\_\_\_\_ pointer.

- Ans
- 1. front; bottom
  - 2. top; rear
  - 3. rear; front
  - 4. front; rear

Question ID : 7532297849  
Status : Answered  
Chosen Option : 4

Q.65 Match the columns.

Device	Layer at which they work
a) Hub	i) All seven layers of OSI model
b) Bridge	ii) Physical layer
c) Router	iii) Data link layer
d) Gateway	iv) Network layer

- Ans
- 1. a-ii, b -i, c- iv, d-iii
  - 2. a-i, b -iii, c- iv, d-ii
  - 3. a-ii, b -iv, c- iii, d-i
  - 4. a-ii, b -iii, c- iv, d-i

Question ID : 7532297832  
Status : Answered  
Chosen Option : 4

Q.66 What is the cause for random 'fatal exception' errors under windows 9x/Me?

- Ans
- 1. Faulty mouse
  - 2. Faulty RAM
  - 3. Faulty keyboard
  - 4. Faulty scanner

Question ID : 7532297870  
Status : Answered  
Chosen Option : 2

Q.67 Select the option that states whether the given statements are true or false.

- a) A graph consists of vertices (nodes) and a pair of vertices called edges (arcs).
- b) The edges are also called arcs.
- c) Degree of a vertex is the number of incident edges.

- Ans
- 1. a-false, b-false, c-true
  - 2. a-true, b-true, c-true
  - 3. a-false, b-true, c-true
  - 4. a-true, b-false, c-true

Question ID : 7532297865  
Status : Answered  
Chosen Option : 2

Q.68 Which of the following is an unshielded twisted-pair (UTP) connector?

- Ans
- 1. ST connector
  - 2. BNC
  - 3. RJ45
  - 4. SC connector

Question ID : 7532297833  
Status : Answered  
Chosen Option : 3

Q.69 Select the option that states whether the given statements are true or false.

- a) When memory is allocated during compilation time, it is called 'Static Memory Allocation'.
- b) When memory is allocated during run/execution time, it is called 'Dynamic Memory Allocation'.
- c) The process of moving all marked nodes to one end of memory and all available memory to the other end is called compaction.

- Ans
- 1. a-true, b-false, c-true
  - 2. a-false, b-true, c-true
  - 3. a-false, b-false, c-true
  - 4. a-true, b-true, c-true

Question ID : 7532297856  
Status : Answered  
Chosen Option : 4

Q.70 Which of the following is an unguided transmission media?

- Ans
- 1. Coaxial cable
  - 2. Microwave
  - 3. Twisted-pair cable
  - 4. Fibre-optic cable

Question ID : 7532297816  
Status : Answered  
Chosen Option : 2

Q.71 Which of the following two internet protocol versions are currently in use?

- Ans
- 1. IPV2 and IPV6
  - 2. IPV5 and IPV4
  - 3. IPV3 and IPV4
  - 4. IPV4 and IPV6

Question ID : 7532297810  
Status : Answered  
Chosen Option : 4

Q.72 Which of the following cables accepts and transports signals in the form of light?

- Ans
- 1. Shielded twisted pair wire
  - 2. Unshielded twisted pair wire
  - 3. Coaxial cable
  - 4. Fibre optics

Question ID : 7532297817  
Status : Answered  
Chosen Option : 4

Q.73 How many components does a data communications system contain?

- Ans
- 1. Four
  - 2. Six
  - 3. Seven
  - 4. Five

Question ID : 7532297809  
Status : Answered  
Chosen Option : 4

Q.74 Which of the following is invalid array initialisation in C language?

- Ans
- 1. Press double [] = { 10.4, 4.2 -31.3, -12.2 } ;
  - 2. float press[] = { 12.3, 34.2 -23.4, -11.3 } ;
  - 3. int n[] = { 2, 4, 12, 5, 45, 5 } ;
  - 4. int num[6] = { 2, 4, 12, 5, 45, 5 } ;

Question ID : 7532297841  
Status : Answered  
Chosen Option : 1

Q.75 Which of the following is NOT the cause of transmission impairment?

- Ans
- 1. Distortion
  - 2. Noise
  - 3. Destruction
  - 4. Attenuation

Question ID : 7532297815  
Status : Answered  
Chosen Option : 3

Q.76 Which of the following sorting algorithms can manipulate arrays as well as lists?

- Ans
- 1. Heap sort
  - 2. Quick sort
  - 3. Bubble Sort
  - 4. Merge sort

Question ID : 7532297863  
Status : Not Attempted and Marked For Review  
Chosen Option : --

Q.77 Which of the following is based on the principle 'sense before transmit'?

Ans  1. CSMA

2. Token passing

3. Controlled access-polling

4. Controlled access-reservation

Question ID : 7532297830

Status : Answered

Chosen Option : 1



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Q.78 What is the output of the following C language programs?

```
#include<stdio.h>
struct array_name
{
    int a;
    float b;
};
int main()
{
    struct array_name a1[6];
    a1[0].a = 66;
    a1[1].b = 8.5;
    printf("Array of structures!\n\n");
    printf("Integer value is: %d\n",a1[0].a);
    printf("Floating point value is: %0.1f\n",a1[1].b);
    printf("Floating point value is: %0.1f",a1[1].b +a1[0].a);

    return 0;
}
```

Ans Array of structures!

- 1. Integer value is: 66  
Floating point value is: 74.5  
Floating point value is: 8.5  
Array of structures!
- 2. Integer value is: 66  
Floating point value is: 8.5  
Floating point value is: 74.5  
Array of structures!
- 3. Integer value is: 8.5  
Floating point value is: 66  
Floating point value is: 74.5  
Array of structures!
- 4. Integer value is: 66  
Floating point value is: 8.5  
Floating point value is: 75.4

Question ID : 7532297843  
Status : Answered  
Chosen Option : 2

Q.79 Which of the following is/are an example of non-linear data structure?

Ans  1. Table of contents

2. Arrays

3. Stacks

4. Queues

Question ID : 7532297835

Status : Answered

Chosen Option : 1

Q.80 In C language, when a char data type array is initialised with size, then what default value is assigned?

Ans  1. False

2. 0.0f

3. 0

4. 0.0

Question ID : 7532297837

Status : Answered

Chosen Option : 3



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