

# TELANGANA RESIDENTIAL EDUCATIONAL INSTITUTIONS RECRUITMENT BOARD TREI-RB

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name :</b>	Computer Science 16th Aug 2023 Shift 1
<b>Subject Name :</b>	Computer Science
<b>Creation Date :</b>	2023-08-16 11:56:18
<b>Duration :</b>	120
<b>Total Marks :</b>	100
<b>Display Marks:</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	Yes
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## Computer Science

<b>Group Number :</b>	1
<b>Group Id :</b>	59425390
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100

Is this Group for Examiner? : No  
Examiner permission : Cant View  
Show Progress Bar? : No

## Computer Science

Section Id : 594253106  
Section Number : 1  
Section type : Online  
Mandatory or Optional : Mandatory  
Number of Questions : 100  
Number of Questions to be attempted : 100  
Section Marks : 100  
Enable Mark as Answered Mark for Review and Clear Response : Yes  
Maximum Instruction Time : 0  
Sub-Section Number : 1  
Sub-Section Id : 594253137  
Question Shuffling Allowed : Yes  
Is Section Default? : null

Question Number : 1 Question Id : 5942538924 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Choose the correct statement about router's forwarding table.

Options :

1. ✓ Maps destination addresses to that router's outbound link
2. ✗ Maps Source address to the destination address
3. ✗ Maps router's inbound link to router's outbound link
4. ✗ Maps router's inbound link to the destination address

Question Number : 2 Question Id : 5942538925 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

What is the frequency spectrum shared among the FM radio stations using frequency division multiplexing?

Options :

1. ✘ 4KHz to 108KHz
2. ✔ 88MHz to 108MHz
3. ✘ 44MHz to 108GHz
4. ✘ 88GHz to 108GHz

Question Number : 3 Question Id : 5942538926 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Match the following:

List-I	List-II
P) Application Layer	i) Message
Q) Transport Layer	ii) Segment
R) Network Layer	iii) Datagrams
S) Data Link Layer	iv) Frames

Options :

1. ✔ P-i, Q-ii, R-iii, S-iv
2. ✘ P-iv, Q-iii, R-ii, S-i
3. ✘ P-iv, Q-ii, R-iii, S-i
4. ✘ P-ii, Q-i, R-iv, S-iii

Question Number : 4 Question Id : 5942538927 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which of the following has become the dominant topology in local area networks?

Options :

1. ✘ Mesh
2. ✔ Star
3. ✘ Ring
4. ✘ Grid

Question Number : 5 Question Id : 5942538928 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which protocol is a vehicle for accessing the World Wide Web?

Options :

1. ✔ HTTP
2. ✘ SMTP
3. ✘ FTP
4. ✘ SNMP

Question Number : 6 Question Id : 5942538929 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

A network with bandwidth of 10Mbps can pass only an average of 12,000 frames per minute with each frame carrying an average of 10,000 bits. What is the throughput of this network?

Options :

1. ✔ 2Mbps
2. ✘ 10Mbps

3. ✘ 12Mbps

4. ✘ 24Mbps

**Question Number : 7 Question Id : 5942538930 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In which layer is address resolution protocol defined?

**Options :**

1. ✘ Application Layer

2. ✔ Network Layer

3. ✘ Transport layer

4. ✘ Datalink layer

**Question Number : 8 Question Id : 5942538931 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is the minimum hamming distance in a block code to guarantee the detection of upto S errors in all cases?

**Options :**

1. ✔ S+1

2. ✘  $S^2$

3. ✘ S-1

4. ✘ 2S

**Question Number : 9 Question Id : 5942538932 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

- A) VLAN is configured by software.
- B) VLAN is setup using physical wiring.
- C) VLAN can reduce the migration cost of stations.
- D) VLAN provides an extra measure of security.

**Options :**

- 1. ✘ A & B only
- 2. ✘ B & C only
- 3. ✘ A, B & C only
- 4. ✔ A, C & D only

**Question Number : 10 Question Id : 5942538933 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the popular block ciphers

**Options :**

- 1. ✘ DES, AES, RSA
- 2. ✘ DES, RSA, DiffieHellman
- 3. ✔ DES, 3DES, AES
- 4. ✘ DES, 3DES, SHA

**Question Number : 11 Question Id : 5942538934 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

S1: Cryptology encompasses cryptography and cryptanalysis.

S2: Cryptology encompasses cryptography and steganalysis.

Options :

1. ✓ S1 only
2. ✗ S2 only
3. ✗ Both S1 and S2
4. ✗ Neither S1 nor S2

**Question Number : 12 Question Id : 5942538935 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is nonrepudiation?

Options :

1. ✗ Not disclosing the sender information.
2. ✗ Receiver has to ascertain its origin.
3. ✓ Not be able to falsely deny later about sent message.
4. ✗ Verify a message for nonmodification in the transit.

**Question Number : 13 Question Id : 5942538936 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In which substitution cipher, blocks of characters are encrypted in groups?

Options :

1. ✗ Homophobic

2. ✘ Caesar
3. ✔ Polygram
4. ✘ Polyalphabetic

**Question Number : 14 Question Id : 5942538937 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Find the cipher text for the message "ONETIMEPAD" if the key sequence is TBFRGFARFM.

**Options :**

1. ✔ IPKLPSFHGQ
2. ✘ PIKLPSFHGQ
3. ✘ KIPLKSFHGQ
4. ✘ LPKIPSFHGQ

**Question Number : 15 Question Id : 5942538938 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which is the most widely used message digest function?

**Options :**

1. ✘ RSA
2. ✘ DES
3. ✘ AES
4. ✔ SHA



**Question Number : 16 Question Id : 5942538939 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is Kerberos?

**Options :**

1. ✘ Digital signature
2. ✔ Signature Authentication Protocol
3. ✘ Symmetric cryptography algorithm
4. ✘ Key Distribution

**Question Number : 17 Question Id : 5942538940 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the universal set of logic gates.

- A) AND, NOT
- B) OR, NOT
- C) NAND
- D) NOR
- E) NAND, NOT
- F) NOR, NOT
- G) AND, OR, NOT

**Options :**

1. ✔ A, B, C, D
2. ✘ E, F, G
3. ✘ A, C, E, G
4. ✘ A, B, D, F

**Question Number : 18 Question Id : 5942538941 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is the simplified function in product-of-sums form of the following

$$F(A, B, C, D) = \Sigma(0, 1, 2, 5, 8, 9, 10)?$$

**Options :**

1. ✘  $AB + CD + BD'$
2. ✘  $B'D' + B'C' + A'C'D$
3. ✔  $(A' + B')(C' + D')(B' + D)$
4. ✘  $(A + B)(C + D)(B + D')$

**Question Number : 19 Question Id : 5942538942 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct set of gates required to implement a Full-adder circuit.

**Options :**

1. ✔ Two XOR, Two AND and One OR gates
2. ✘ Four NOR, Two AND and One OR gates
3. ✘ Two NAND, Two AND and One OR gates
4. ✘ Four NOR, Two NAND and One OR gates

**Question Number : 20 Question Id : 5942538943 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which computer register holds address of instruction?

Options :

1. ✘ Memory Address register
2. ✘ Memory data register
3. ✘ Instruction register
4. ✔ Program Counter

Question Number : 21 Question Id : 5942538944 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Choose correct set of memory reference instructions.

Options :

1. ✔ AND, LDA, STA, BUN, BSA
2. ✘ CLA, CLE, CMA, CME,
3. ✘ SZE, CIR, CIL, INC, SPA, SNA
4. ✘ INP, OUT, SKI, ION, IOF

Question Number : 22 Question Id : 5942538945 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which interrupts are initiated by exceptional condition caused by the program?

Options :

1. ✘ External Interrupts
2. ✔ Internal interrupts

3. ✘ Hardware interrupts

4. ✘ Exception interrupts

**Question Number : 23 Question Id : 5942538946 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which procedure is used to identify the highest-priority source by software means, in input output organization?

**Options :**

1. ✘ interrupt vector

2. ✔ polling

3. ✘ dairy chaining

4. ✘ cycle stealing

**Question Number : 24 Question Id : 5942538947 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Devices that provide backup storage are called

**Options :**

1. ✔ auxillary memory

2. ✘ optical storage

3. ✘ tertiary memory

4. ✘ cache storage

**Question Number : 25 Question Id : 5942538948 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

How many  $128 \times 8$  RAM chips are needed to provide a memory capacity of 2048 bytes?

**Options :**

1. ✓ 16

2. ✗ 2

3. ✗ 8

4. ✗ 12

**Question Number : 26 Question Id : 5942538949 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In Intel 8086, what is the size of address bus?

**Options :**

1. ✓ 20 bits

2. ✗ 16 bits

3. ✗ 30 bits

4. ✗ 32 bits

**Question Number : 27 Question Id : 5942538950 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

S1: A syntax-directed definition does not impose any specific order for the evaluation of attributes on a parse tree.

S2: The order of evaluation of the semantic rules is explicitly shown in a translation scheme

**Options :**

1. ✘ S1 only
2. ✘ S2 only
3. ✔ Both S1 and S2
4. ✘ Neither S1 nor S2

**Question Number : 28 Question Id : 5942538951 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Match the following:

List-I	List-II
P) Lexical	i) Infinitely recursive call
Q) Syntactic	ii) Operator to an incompatible operand
R) Semantic	iii) Misspelling of a keyword
S) Logical	iv) Unbalanced parentheses in arithmetic expression

**Options :**

1. ✔ P - iii; Q - iv; R - ii; S - i
2. ✘ P - i; Q - ii; R - iii; S - iv
3. ✘ P - iv; Q - iii; R - ii; S - i
4. ✘ P - ii, Q - i, R - iv, S - iii

**Question Number : 29 Question Id : 5942538952 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following LR technique is the most powerful and most expensive?

**Options :**

1. ✘ Simple LR
2. ✘ Canonical LR
3. ✔ Look ahead LR
4. ✘ Translation LR

**Question Number : 30 Question Id : 5942538953 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is the position of type checker?

**Options :**

1. ✔ Between parser and intermediate code generator
2. ✘ Between preprocessor and assembler
3. ✘ Between parser and preprocessor
4. ✘ Between compiler and assembler

**Question Number : 31 Question Id : 5942538954 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which technique is used for allocating registers and managing register spills in code generation?

**Options :**

1. ✔ Graph coloring

2. ✘ Graph mapping
3. ✘ Recursive parsing
4. ✘ Storage translation

**Question Number : 32 Question Id : 5942538955 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which data structures are used to implement symbol table in a compiler?

**Options :**

1. ✘ Arrays and Trees
2. ✔ Linear lists and hash tables
3. ✘ Linear lists and Binary tree
4. ✘ Arrays and dictionaries

**Question Number : 33 Question Id : 5942538956 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In which level of abstraction application programmers work in database management systems?

**Options :**

1. ✘ View level
2. ✔ Logical level
3. ✘ External level



4. ✘ Physical level

Question Number : 34 Question Id : 5942538957 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Match the following:

**List-I**

- P) Derived attribute
- Q) Multivalued attribute
- R) Weak entity set
- S) Identifying relationship set

**List-II**

- i) Double Rectangle
- ii) Double Rhombus
- iii) Double Ellipse
- iv) Dashed Ellipse

Options :

- 1. ✔ P - iv; Q - iii; R - i; S - ii
- 2. ✘ P - iv; Q - iii; R - ii; S - i
- 3. ✘ P - ii; Q - iii; R - iv; S - i
- 4. ✘ P - iii; Q - iv; R - ii; S - i

Question Number : 35 Question Id : 5942538958 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which normal form is based on the concept of functional dependency?

Options :

- 1. ✘ 4NF
- 2. ✘ 5NF
- 3. ✘ 1NF

4. ✓ 3NF

**Question Number : 36 Question Id : 5942538959 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which indexing technique will have an index record for every distinct value of the index attribute?

**Options :**

1. ✗ Sparse
2. ✗ Clustered
3. ✓ Dense
4. ✗ Unclustered

**Question Number : 37 Question Id : 5942538960 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following process reduces redundancy in Database?

**Options :**

1. ✗ indexing
2. ✓ normalization
3. ✗ crash recovery
4. ✗ concurrency control

**Question Number : 38 Question Id : 5942538961 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following algorithm is used for crash recovery?

Options :

1. ✘ Two phase locking
2. ✔ ARIES
3. ✘ Multiversion
4. ✘ Timestamp

Question Number : 39 Question Id : 5942538962 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which file organization is best suited for insertion operations?

Options :

1. ✘ Hash file
2. ✔ Heap file
3. ✘ Sorted file
4. ✘ Sequential file

Question Number : 40 Question Id : 5942538963 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which component of DBMS handles meta data?

Options :

1. ✘ system catalogue
2. ✔ data dictionary
3. ✘ file manager

4. ✘ storage manager

**Question Number : 41 Question Id : 5942538964 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

S1: Database administrator maintains authorization graphs.

S2: Transaction manager grants locks to transaction.

S3: Wait-die policy prevents deadlocks.

**Options :**

1. ✘ S1 only

2. ✘ S1 & S2 only

3. ✘ S2 & S3 only

4. ✔ S1, S2 & S3

**Question Number : 42 Question Id : 5942538965 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following is a construct for class hierarchy in ER model?

**Options :**

1. ✔ IS A

2. ✘ PART OF

3. ✘ SUBCLASS

4. ✘ HAS A

**Question Number : 43 Question Id : 5942538966 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Match the following:

**List-I**

**List-II**

P) Structural

i) note

Q) Behavioral

ii) package

R) Grouping

iii) usecase

S) Annotation

iv) object

**Options :**

1. ✓ P - iv; Q - iii; R - ii; S - i

2. ✗ P - iii; Q - iv; R - i; S - ii,

3. ✗ P - ii; Q - iii; R - iv; S - i

4. ✗ P - iii; Q - i; R - ii; S - iv

**Question Number : 44 Question Id : 5942538967 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which UML diagram is used to model executable releases of a software product?

**Options :**

1. ✗ usecase diagram

2. ✓ component diagram

3. ✗ activity diagram

4. ✗ statechart diagram

**Question Number : 45 Question Id : 5942538968 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In which UML diagram swimlanes are used?

**Options :**

1. ✘ class diagram
2. ✘ usecase diagram
3. ✘ deployment diagram
4. ✔ activity diagram

**Question Number : 46 Question Id : 5942538969 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following is a society of roles and other elements that work together to provide some cooperative behavior in UML?

**Options :**

1. ✔ collaboration
2. ✘ Action
3. ✘ statemachine
4. ✘ package

**Question Number : 47 Question Id : 5942538970 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct set of diagrams used in modelling process view of a system.

**Options :**

1. ✔ sequence, activity, statechart
2. ✘ class, component, deployment

3. ✘ class, object, sequence

4. ✘ activity, deployment, component

**Question Number : 48 Question Id : 5942538971 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct sequence of phases in Unified process.

A) Inception

B) Construction

C) Elaboration

D) Transition

**Options :**

1. ✔ A, C, B, D

2. ✘ A, B, C, D

3. ✘ A, D, B, C

4. ✘ A, B, D, C

**Question Number : 49 Question Id : 5942538972 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following is assessed by considering human factors, consistency and documentation?

**Options :**

1. ✘ Functionality

2. ✔ Usability

3. ✘ Reliability

#### 4. ✘ Supportability

**Question Number : 50 Question Id : 5942538973 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

- S1: Cohesion is an indication of the relative functional strength of a module.
- S2: Coupling is an indication of the relative interdependence among modules.
- S3: Cohesion is a natural extension of the information-hiding concept.
- S4: Abstraction and refinement are complementary concepts

**Options :**

- 1. ✘ S1 only
- 2. ✘ S1 & S2 only
- 3. ✘ S1, S2 & S3 only
- 4. ✔ S1, S2, S3, S4

**Question Number : 51 Question Id : 5942538974 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following is a black box testing technique?

**Options :**

- 1. ✔ Boundary Value Analysis
- 2. ✘ Prime Path Testing
- 3. ✘ Branch testing
- 4. ✘ Statement coverage



**Question Number : 52 Question Id : 5942538975 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Match the following:

**List-I**

- X) Cyclomatic indexing
- Y) Schedule Variance
- Z) Defect density

**List-II**

- i) Process metric
- ii) Product metric
- iii) Project metric

**Options :**

- 1. ✘ X - i; Y - ii; Z - iii
- 2. ✔ X - ii; Y - iii; Z - i
- 3. ✘ X - iii; Y - i; Z - ii
- 4. ✘ X - iii; Y - ii; Z - i

**Question Number : 53 Question Id : 5942538976 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

The maximum number of binary trees that can be formed with three unlabelled nodes is

**Options :**

- 1. ✘ 1
- 2. ✔ 5
- 3. ✘ 4
- 4. ✘ 3

**Question Number : 54 Question Id : 5942538977 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following sorting algorithms has the lowest worst-case complexity?

Options :

1. ✓ Merge sort
2. ✗ Bubble sort
3. ✗ Quick sort
4. ✗ Selection sort

Question Number : 55 Question Id : 5942538978 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

The following postfix expression with single digit operands is evaluated using a stack...

$823 \wedge / 42 * + 51 * -$

The top two elements of the stack after the first \* is evaluated are:

Options :

1. ✓ 8, 1
2. ✗ 4, 2
3. ✗ 5, 7
4. ✗ 1, 5

Question Number : 56 Question Id : 5942538979 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Match the following:

**List-I**

- P) Binary Search
- Q) Floyd-Warshall algorithm
- R) Dijkstra's Shortest Path
- S) Eight queens problem

**List-II**

- i) Dynamic programming
- ii) Greedy Method
- iii) Backtracking
- iv) Divide and Conquer

**Options :**

1. ✓ P - iv; Q - i; R - ii; S - iii

2. ✗ P - ii; Q - iii; R - iv; S - i

3. ✗ P - iii; Q - iv; R - i; S - ii

4. ✗ P - i; Q - ii; R - iii; S - iv

**Question Number : 57 Question Id : 5942538980 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

While inserting the elements 71, 65, 84, 69, 67, 83 in an empty binary search tree in the sequence shown, the element in the lowest level is

**Options :**

1. ✗ 65

2. ✓ 67

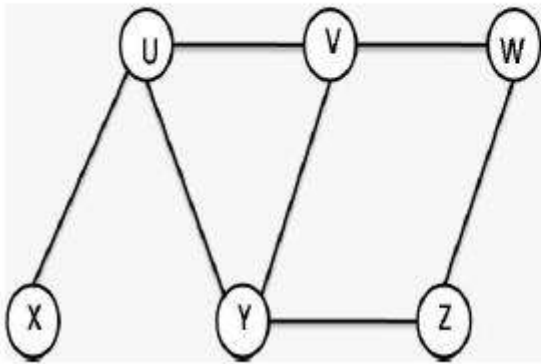
3. ✗ 69

4. ✗ 83

**Question Number : 58 Question Id : 5942538981 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

The Breadth first search algorithm has been implemented using the queue data structure, one possible order of visiting the nodes of the following graph is



Options :

1. ✘ UVWXYZ
2. ✘ VYUZXW
3. ✔ YUVZXW
4. ✘ YUVZWX

Question Number : 59 Question Id : 5942538982 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

An algorithm is said to be exponential for an instance of size 'n' if it takes time in the order of

Options :

1. ✘  $n^e$
2. ✘  $n^3$
3. ✔  $c^n$
4. ✘  $n$

Question Number : 60 Question Id : 5942538983 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

What is the asymptotic complexity of matrix addition algorithm?

Options :

1. ✘  $\theta(1)$
2. ✘  $\theta(\text{rows})$
3. ✘  $\theta(\text{cols})$
4. ✔  $\theta(\text{rows} \cdot \text{Cols})$

Question Number : 61 Question Id : 5942538984 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Which data structure is required to solve towers of hanoi problem?

Options :

1. ✔ stack
2. ✘ queue
3. ✘ tree
4. ✘ graph

Question Number : 62 Question Id : 5942538985 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

What is the time complexity of Heapsort?

Options :

1. ✘  $O(n^2)$

2. ✘  $O(n)$
3. ✘  $O(\log n)$
4. ✔  $O(n \cdot \log n)$

**Question Number : 63 Question Id : 5942538986 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following tree contains exactly  $(2^n - 1)$  elements where 'n' is height of the tree?

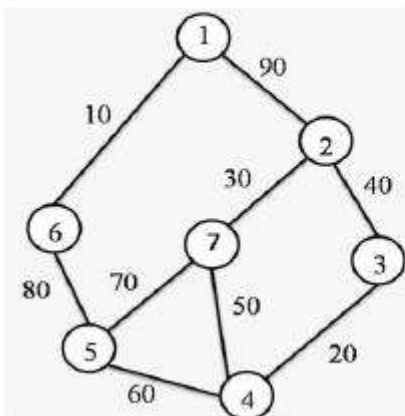
**Options :**

1. ✘ binary tree
2. ✘ binary search tree
3. ✔ full binary tree
4. ✘ complete binary tree

**Question Number : 64 Question Id : 5942538987 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is the cost of the minimum spanning tree of the following graph?



**Options :**

1. ✘ 180

2. ✘ 190

3. ✔ 240

4. ✘ 270

**Question Number : 65 Question Id : 5942538988 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

S1: The graphs for which DFS takes maximum space are the graphs on which BFS takes minimum space

S2: Graphs are used in the study of the molecular structure of chemical compounds.

**Options :**

1. ✘ S1 only

2. ✘ S2 only

3. ✔ Both S1 & S2

4. ✘ Neither S1 nor S2

**Question Number : 66 Question Id : 5942538989 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct statement about AVL trees:

**Options :**

1. ✘ Height of left and right subtrees of a root node differ by **atmost** one

2. ✘ Height of left and right subtrees of every node differ by **atleast** one

3. ✘ Height of left and right subtrees of a root node differ by **atleast** one
4. ✔ Height of left and right subtrees of every node differ by **atmost** one

**Question Number : 67 Question Id : 5942538990 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following is best suited for word frequency computation program?

**Options :**

1. ✘ Stack
2. ✘ Red-black tree
3. ✘ 2-3 tree
4. ✔ Splay tree

**Question Number : 68 Question Id : 5942538991 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which is the central idea behind the simple batch-processing scheme of operating system?

**Options :**

1. ✔ monitor
2. ✘ semaphore
3. ✘ process
4. ✘ mutex

**Question Number : 69 Question Id : 5942538992 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**



To which state a process moves from a blocked state, when the event for which it has been waiting occurs?

Options :

1. ✘ exit
2. ✘ running
3. ✔ ready
4. ✘ new

**Question Number : 70 Question Id : 5942538993 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following represents a situation in which multiple processes read and write a shared data item and the final result depends on the relative timing of their execution?

Options :

1. ✘ critical section
2. ✘ mutual exclusion
3. ✔ race condition
4. ✘ starvation

**Question Number : 71 Question Id : 5942538994 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which deadlock handling approach is conservative and undercommits resources?

Options :

1. ✘ detection

2. ✘ ignorance
3. ✘ avoidance
4. ✔ prevention

**Question Number : 72 Question Id : 5942538995 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following techniques suffer from internal fragmentation?

**Options :**

1. ✘ Dynamic partitioning
2. ✔ Simple paging
3. ✘ Simple segmentation
4. ✘ Virtual memory segmentation

**Question Number : 73 Question Id : 5942538996 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Consider fixed frame allocation of three frames. Find the number of page faults resulted by FIFO policy for the following page address stream.

2 3 2 1 5 2 4 5 3 2 5 2

**Options :**

1. ✘ Four
2. ✘ Five
3. ✔ Six
4. ✘ Three

**Question Number : 74 Question Id : 5942538997 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

What is the turn around time for round robin scheduling with quantum = 4, for the following process?

Process	Arrival Time	Service Time
A	0	3
B	2	6
C	4	4
D	6	5
E	8	2

**Options :**

1. ✘ 8.6
2. ✘ 10.8
3. ✘ 8
4. ✔ 10

**Question Number : 75 Question Id : 5942538998 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

A CPU generates 32-bit virtual addresses. The page size is 4KB. The processor has a translation look aside buffer which can hold a total of 128 page table entries and is 4-way set associative. The minimum size of the TLB tag is

**Options :**

1. ✔ 11 bits
2. ✘ 13 bits
3. ✘ 15 bits

4. ✘ 20 bits

**Question Number : 76 Question Id : 5942538999 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

A counting semaphore was initialized to 10, the 6P(wait) operations and 4V(signal) operations were completed on this semaphore. The resulting value of the semaphore is

**Options :**

1. ✘ Zero

2. ✔ Eight

3. ✘ Nine

4. ✘ Twelve

**Question Number : 77 Question Id : 5942539000 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following is a program activated on an infected machine that is activated to launch attacks on other machines?

**Options :**

1. ✘ Worm

2. ✘ Logic bomb

3. ✘ Floodee

4. ✔ Zombie

**Question Number : 78 Question Id : 5942539001 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which is the first language for scientific application?

**Options :**

1.  Fortran

2.  Simula

3.  Haskell

4.  Prolog

**Question Number : 79 Question Id : 5942539002 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which programming language characteristic means that a relatively small set of primitive constructs can be combined in small number of ways to build the control and data structures of the language?

**Options :**

1.  Simplicity

2.  Expressivity

3.  Orthogonality

4.  Aliasing

**Question Number : 80 Question Id : 5942539003 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the famous dialects of LISP language.

**Options :**

1.  Prolog and Common LISP

2. ✘ ML and Harkell
3. ✔ Common LISP and Scheme
4. ✘ Scheme and Simula

**Question Number : 81 Question Id : 5942539004 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which set of programming languages have the exponentiation operator?

**Options :**

1. ✔ Fortran, Ruby, Ada and Visual Basic
2. ✘ Fortran, Basic, Simula and Ruby
3. ✘ Visual Basic, Visual C++, Fortran and Ada
4. ✘ Ruby, Perl, Fortran and ALGOL

**Question Number : 82 Question Id : 5942539005 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct statements about Prolog:

- S1: Headed horn clauses are called rules.  
S2: 'is' operator works like an assignment operator

**Options :**

1. ✘ S1 only
2. ✘ S2 only
3. ✔ Both S1 & S2

4. ✘ Neither S1 nor S2

**Question Number : 83 Question Id : 5942539006 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Information exchange in a distributed system is accomplished through

**Options :**

1. ✘ Shared memory

2. ✘ Pipes

3. ✘ FIFOs

4. ✔ Message passing

**Question Number : 84 Question Id : 5942539007 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

In a distributed system, system throughput is measured in

**Options :**

1. ✔ MIPS, Tflops, TPS

2. ✘ Mbps, MPS, TPS

3. ✘ Ghz, Tflops, Mbps

4. ✘ MIPS, Mbps, Ghz

**Question Number : 85 Question Id : 5942539008 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which of the following is an election algorithm for process synchronization in distributed systems?

**Options :**

1. ✓ Bully
2. ✗ Christian
3. ✗ Berkeley
4. ✗ Lamport

**Question Number : 86 Question Id : 5942539009 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which type of transparency is important to provide better performance and reliability for a distributed system?

**Options :**

1. ✗ Access
2. ✗ Location
3. ✓ Replication
4. ✗ Failure

**Question Number : 87 Question Id : 5942539010 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Match the following:

List-I	List-II
P) Line	i) Midpoint
Q) Ellipse	ii) Bresenham
R) Polygon Clipping	iii) Horner
S) Spline Curves	iv) Sutherland-Hodgeman

**Options :**



1. ✘ P - iv; Q - iii; R - ii; S - i

2. ✘ P - i; Q - ii; R - iii; S - iv

3. ✔ P - ii; Q - i; R - iv; S - iii

4. ✘ P - ii; Q - iii; R - iv; S - i

**Question Number : 88 Question Id : 5942539011 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

An Aspect ratio  $3/4$  in computer graphics means that:

**Options :**

1. ✘ Vertical points are  $3/4$  of horizontal points

2. ✔ Vertical lines plotted with three points has the same length as a horizontal line plotted with four points.

3. ✘ Vertical lines are 75% of the horizontal lines.

4. ✘ Horizontal 1280 pixels where as vertical axis supports 1026.

**Question Number : 89 Question Id : 5942539012 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which are the basic geometric transformations?

**Options :**

1. ✔ translation, rotation and scaling

2. ✘ translation, zooming and shifting

3. ✘ transform, rotate and zoom

4. ✘ rotation, zooming and scaling

**Question Number : 90 Question Id : 5942539013 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct set of curve attributes.

**Options :**

1. ✔ color, width, dot-dash pattern

2. ✘ fill style, length, pixel count

3. ✘ color, text, width

4. ✘ fill color, length, width

**Question Number : 91 Question Id : 5942539014 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following operators has the highest precedence in C language?

**Options :**

1. ✔ `-->`

2. ✘ `'&'`

3. ✘ `'%='`

4. ✘ `'sizeof'`

**Question Number : 92 Question Id : 5942539015 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct statement for the following code.

```
for(i=0; i<n; i++)printf("%6d&c", a[i], (i%10==9 || i==n-1)? '\n': ' ');
```

Options :

A newline is printed after every nth element, all other elements are followed by

1. ✘ one blank.

A newline is printed after every tenth element and after the nth, all other elements are followed by one blank.

2. ✔

A newline is printed after every tenth element, all other elements are followed by

3. ✘ one blank.

A newline is printed after every newline all other elements are followed by one

4. ✘ blank.

**Question Number : 93 Question Id : 5942539016 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which among the following is a valid 'C' identifier?

Options :

1. ✘ \$sum

2. ✘ 3DES

3. ✔ \_sum

4. ✘ continue

**Question Number : 94 Question Id : 5942539017 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which are the two command line arguments to a C program?

Options :

1. ✓ Number of arguments, pointer to an array of character strings.
2. ✗ Number of arguments, structure of strings
3. ✗ Number of arguments, values of the arguments.
4. ✗ Number of arguments, pointer to character strings.

**Question Number : 95 Question Id : 5942539018 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Read the following statements and choose the correct answer.

S1: Typedefs are used to parametrize a program against portability problems

S2: Typedefs are used to provide better documentation for a program.

**Options :**

1. ✗ S1 only
2. ✗ S2 only
3. ✓ Both S1 & S2
4. ✗ Neither S1 nor S2

**Question Number : 96 Question Id : 5942539019 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which is the default storage class in 'C'?

**Options :**

1. ✓ auto
2. ✗ extern

3. ✘ register

4. ✘ static

**Question Number : 97 Question Id : 5942539020 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which keyword is mandatory to implement multiple inheritance in Java?

**Options :**

1. ✘ inherit

2. ✘ extends

3. ✔ implements

4. ✘ try

**Question Number : 98 Question Id : 5942539021 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Choose the correct set of keywords for exceptional handling in Java.

**Options :**

1. ✘ try, catch, final, throw, throws

2. ✔ try, catch, finally, throw, throws

3. ✘ try, catch, exception, run, throw

4. ✘ try, catch, final, finally, child

**Question Number : 99 Question Id : 5942539022 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Java permits to assign priorities to threads. What is the maximum value?

**Options :**

1. ✓ 10

2. ✗ 30

3. ✗ five

4. ✗ eight

**Question Number : 100 Question Id : 5942539023 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Which keyword is used to prevent class inheritance in Java?

**Options :**

1. ✗ private

2. ✗ finally

3. ✓ final

4. ✗ super