NTA UGC NET Jan 2025

Application No	
Candidate Name	
Roll No.	
Test Date	06/01/2025
Test Time	9:00 AM - 12:00 PM
Subject	87 Computer Science and Applications

Section : General Paper

Comprehension:

Bakery shops in a city prepare three different varieties of hotcakes, namely, Cornmeal, American and Swedish. The following table shows the total number of hotcakes (three varieties together) sold by four different bakery shops, namely A, B, C and D on Monday along with the number of Cornmeal hotcakes sold and the difference between the number of American hotcakes and Cornmeal hotcakes sold. Based on the data in the table, answer the questions that follow.

Bakery-wise Sale Details of Hotcakes on Monday

Bakery	Total Number of Hotcakes sold	Number of Cornmeal Hotcakes Sold	Difference between the number of American and Cornmeal Hotcakes Sold
A	1200	320	40
B	1080	280	120
C	1000	360	80
D	1320	420	40

Note : (1) Total numbers of hotcakes sold = sum of sale of number of Cornmeal, American and Swedish hotcakes
(2) Number of American hotcakes sold is always greater than the number of Cornmeal hotcakes sold

SubQuestion No : 1

Q.1 What is the difference between the total number of Cornmeal hotcakes sold by bakery A and bakery D together, and the number of Swedish hotcakes sold by bakery A?

1. 175
2. 200
3. 150
4. 220

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491545**
Option 1 ID : **3767496013**
Option 2 ID : **3767496014**
Option 3 ID : **3767496015**
Option 4 ID : **3767496016**
Status : **Answered**
Chosen Option : **3**

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SubQuestion No : 2

Q.2 If the number of cornmeal hotcakes sold by bakery B on Tuesday (that is, the next day) is 20% more than that on Monday, the ratio of the number of American hotcakes to Swedish hotcakes by bakery B on Tuesday is 4:5, and the number of American hotcakes sold by bakery B on Tuesday is 320, then what is the total number of hotcakes sold by bakery B on Tuesday?

1. 1056
2. 1150
3. 1200
4. 1000

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491543**
Option 1 ID : **3767496005**
Option 2 ID : **3767496006**
Option 3 ID : **3767496007**
Option 4 ID : **3767496008**
Status : **Answered**
Chosen Option : **2**

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SubQuestion No : 3

Q.3 The number of American hotcakes sold by bakery A is _____ % more than the number of Swedish hotcakes sold by bakery C.

1. 20
2. 80
3. 180
4. 40

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491544**
Option 1 ID : **3767496009**
Option 2 ID : **3767496010**
Option 3 ID : **3767496011**
Option 4 ID : **3767496012**
Status : **Answered**
Chosen Option : **3**

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(2) Number of American hotcakes sold is always greater than the number of Cornmeal hotcakes sold

SubQuestion No : 4

Q.4 For another bakery E, if the total number of hotcakes sold is 120 less than that of bakery D, number of Cornmeal hotcakes sold is 40% of the total number of hotcakes sold by E, number of American hotcakes sold is 35% of the total number of hotcakes sold by E and the remaining are Swedish hotcakes sold by E, then what is the number of Swedish hotcakes sold by bakery E?

1. 210

2. 300

3. 250

4. 400

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491546**
Option 1 ID : **3767496017**
Option 2 ID : **3767496018**
Option 3 ID : **3767496019**
Option 4 ID : **3767496020**
Status : **Answered**
Chosen Option : **2**

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(2) Number of American hotcakes sold is always greater than the number of Cornmeal hotcakes sold

SubQuestion No : 5

Q.5 What is the ratio of the number of American hotcakes sold by bakery C to the number of Swedish hotcakes sold by bakery D?

1. 3:5
2. 5:2
3. 1:1
4. 4:3

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491542**
Option 1 ID : **3767496001**
Option 2 ID : **3767496002**
Option 3 ID : **3767496003**
Option 4 ID : **3767496004**
Status : **Answered**
Chosen Option : **3**

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Q.6 Which of the following tools can be used to create a virtual science lab experience?

A. Kahoot!
B. Labster
C. Turnitin
D. Phet simulation
E. Padlet

Choose the ***correct*** answer from the options given below:

1. A, B and D Only

2. C and E Only

3. A and E Only

4. B and D Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491550**
Option 1 ID : **3767496033**
Option 2 ID : **3767496034**
Option 3 ID : **3767496035**
Option 4 ID : **3767496036**
Status : **Answered**
Chosen Option : **3**

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Q.7

निम्नलिखित में से कौन से विपरीत तर्क-वाक्य हैं ?

A. सभी कवि स्पप्नद्दष्टा होते हैं
B. कुछ कवि स्वप्नद्दष्टा होते हैं
C. कुछ कवि स्वप्नद्दष्टा नहीं होते हैं
D. कोई वर्ग वृत्त नहीं होते हैं
E. कोई कवि स्वप्नद्दष्टा नहीं होते हैं

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

1. D and E Only

2. C and D Only

3. B and D Only

4. A and E Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491570**
Option 1 ID : **3767496113**
Option 2 ID : **3767496114**
Option 3 ID : **3767496115**
Option 4 ID : **3767496116**
Status : **Answered**
Chosen Option : **4**

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Q.8

Android is a mobile operating system developed by _____.

1. IBM

2. Apple

3. Microsoft

4. Google

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491573**
Option 1 ID : **3767496125**
Option 2 ID : **3767496126**
Option 3 ID : **3767496127**
Option 4 ID : **3767496128**
Status : **Answered**
Chosen Option : **1**

Q.9

If a certain coding scheme, "DELHI" is coded as 5613910, then how is "MUMBAI" coded in this scheme?

1. 1422143210

2. 132113219

3. 122012108

4. 1523154311

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491562**
Option 1 ID : **3767496081**
Option 2 ID : **3767496082**
Option 3 ID : **3767496083**
Option 4 ID : **3767496084**
Status : **Answered**
Chosen Option : **1**

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Q.10 Which of the following air pollutants causes serious health issue due to its greater affinity for hemoglobin in blood in comparison to oxygen?

1. SO_2 (Sulphur dioxide)

2. CO (Carbon Monoxide)

3. CO_2 (Carbon dioxide)

4. O_3 (Ozone)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491581**
Option 1 ID : **3767496157**
Option 2 ID : **3767496158**
Option 3 ID : **3767496159**
Option 4 ID : **3767496160**
Status : **Answered**
Chosen Option : **1**

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Q.11

निम्नलिखित में से हाइड्रोइलेक्ट्रिक विद्युत संयंत्र के कौन-कौन से प्रभाव हैं ?

A. भू-निम्नीकरण / अवक्रमण
B. सूक्ष्म-भूकंपता
C. ग्रीन हाउस गैस उत्सर्जन
D. जल प्रदूषण
E. धूम्र कोहरे का निर्माण

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन कीजिए:

1. केवल A, B, C और D

2. केवल A, C, D और E

3. केवल A, B, D और E

4. केवल B, C और E

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491578**
Option 1 ID : **3767496145**
Option 2 ID : **3767496146**
Option 3 ID : **3767496147**
Option 4 ID : **3767496148**
Status : **Answered**
Chosen Option : **1**

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Q.12 Which of the following were the initiatives taken during the third five year plan?

A. Removal of the diploma course system.
B. Provision for correspondence courses.
C. Establishment of additional colleges including regional engineering colleges.
D. Appointment of working group on technical education.
E. Less emphasis on trained manpower.

Choose the ***correct*** answer from the options given below:

1. A, B and C Only

2. B, C and D Only

3. C, D and E Only

4. A, D and E Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491584**
Option 1 ID : **3767496169**
Option 2 ID : **3767496170**
Option 3 ID : **3767496171**
Option 4 ID : **3767496172**
Status : **Answered**
Chosen Option : **2**

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Q.13

Match the **LIST-I** with **LIST-II**

LIST-I (Definition)		LIST-II (Characteristic)	
A.	Stipulative	I.	They are used to eliminate ambiguity
B.	Lexical	II.	They encapsulate larger understanding of theory
C.	Precising	III.	It is neither accurate nor inaccurate
D.	Theoretical	IV.	It reports the meaning of the definiendum

Choose the **correct** answer from the options given below:

1. A-II, B-IV, C-III, D-I

2. A-I, B-III, C-IV, D-II

3. A-IV, B-II, C-III, D-I

4. A-III, B-IV, C-I, D-II

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491569**
Option 1 ID : **3767496109**
Option 2 ID : **3767496110**
Option 3 ID : **3767496111**
Option 4 ID : **3767496112**
Status : **Answered**
Chosen Option : **2**

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Q.14 The committee for the establishment of a national open university was headed by

1. G. Parthasarathy
2. G. Rami Reddy
3. Hari Gautam
4. K. L. Srimali

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491583**
Option 1 ID : **3767496165**
Option 2 ID : **3767496166**
Option 3 ID : **3767496167**
Option 4 ID : **3767496168**
Status : **Answered**
Chosen Option : **4**

Q.15 If $(L)_M$ represents a number L in base-M number system, then identify the correct ascending order of the following numbers A-D when converted to decimal number system.

A. $(11011.11)_2$
B. $(131.2)_4$
C. $(25.5)_8$
D. $(16.6)_{16}$

Choose the ***correct*** answer from the options given below:

1. C, D, B, A
2. C, D, A, B
3. A, C, D, B
4. B, A, C, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491572**
Option 1 ID : **3767496121**
Option 2 ID : **3767496122**
Option 3 ID : **3767496123**
Option 4 ID : **3767496124**
Status : **Answered**
Chosen Option : **3**

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Q.16

Situated cognition is _____.

1. The idea that thinking is located in social and physical contexts, not within an individual's mind.

2. A student's general knowledge about the world.

3. The belief that one can master a situation and produce positive outcomes.

4. A schema of an event.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491548**
Option 1 ID : **3767496025**
Option 2 ID : **3767496026**
Option 3 ID : **3767496027**
Option 4 ID : **3767496028**
Status : **Answered**
Chosen Option : **4**

Q.17

If 7:x = 17.5 : 22.5, find the value of x.

1. 9

2. 12

3. 15

4. 8

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491565**
Option 1 ID : **3767496093**
Option 2 ID : **3767496094**
Option 3 ID : **3767496095**
Option 4 ID : **3767496096**
Status : **Answered**
Chosen Option : **1**

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Q.18 Which of the following are characteristics of computer-mediated mass communication?

A. One-way communication
B. Massification
C. Interactivity
D. Demassification
E. Asynchroneity

Choose the ***correct*** answer from the options given below:

1. A, B, C Only

2. B, C, D Only

3. C, D, E Only

4. A, B, E Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491559**
Option 1 ID : **3767496069**
Option 2 ID : **3767496070**
Option 3 ID : **3767496071**
Option 4 ID : **3767496072**
Status : **Answered**
Chosen Option : **4**

Q.19 एक परिस्थिति से दूसरी परिस्थिति में अधिगम का अंतरण जो चेतन और प्रयत्नपूर्ण है, को कहा जाता है :

1. फार-रोड अंतरण

2. हाई-रोड अंतरण

3. निअर-रोड अंतरण

4. लौंग-रोड अंतरण

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491547**
Option 1 ID : **3767496021**
Option 2 ID : **3767496022**
Option 3 ID : **3767496023**
Option 4 ID : **3767496024**
Status : **Answered**
Chosen Option : **2**

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Q.20

Which one of the following has highest turbidity?

1. Drinking water

2. Muddy water

3. Clear Lake water

4. Ocean water

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491577**
Option 1 ID : **3767496141**
Option 2 ID : **3767496142**
Option 3 ID : **3767496143**
Option 4 ID : **3767496144**
Status : **Answered**
Chosen Option : **4**

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Q.21

Which of the following are the strategies of co-operative learning?

A. Rally coach
B. Talking chips
C. Schedule
D. Round table
E. Think-pair-share

Choose the ***correct*** answer from the options given below:

1. A, B, D and E Only

2. B and E Only

3. A, C and E Only

4. B and D Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491549**
Option 1 ID : **3767496029**
Option 2 ID : **3767496030**
Option 3 ID : **3767496031**
Option 4 ID : **3767496032**
Status : **Answered**
Chosen Option : **3**

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Q.22 Which of the following is an independent malicious program that propagates itself across a network by exploiting security flaws in widely-used services?

1. Computer Worm
2. Computer Virus
3. Trojan Horse
4. Logic Bomb

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491574**
Option 1 ID : **3767496129**
Option 2 ID : **3767496130**
Option 3 ID : **3767496131**
Option 4 ID : **3767496132**
Status : **Answered**
Chosen Option : **3**

Q.23 The tendency of researchers to subtly and inadvertently affect the behaviours of participants in a study, obscuring the true effect of the independent variable, is called

1. Response bias
2. Experimenter bias
3. Social desirability bias
4. Hawthorne effect

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491553**
Option 1 ID : **3767496045**
Option 2 ID : **3767496046**
Option 3 ID : **3767496047**
Option 4 ID : **3767496048**
Status : **Answered**
Chosen Option : **4**

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Q.24 Sound with frequencies below and above the audible frequency range are known as_____.

A. Feeble sound
B. Infrasound
C. Parasound
D. Ultrasound

Choose the ***correct*** answer from the options given below:

1. A and C

2. B and C

3. B and D

4. A and D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491579**
Option 1 ID : **3767496149**
Option 2 ID : **3767496150**
Option 3 ID : **3767496151**
Option 4 ID : **3767496152**
Status : **Answered**
Chosen Option : **3**

Q.25 A man walks 12 km towards south and then 7 km towards north. From here he walks 5 km towards his left. How far and in which direction is the man with reference to his starting point?

1. 5km, North-west

2. 5km, south-west

3. $5\sqrt{2}$, south-west

4. $5\sqrt{2}$, south-east

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491566**
Option 1 ID : **3767496097**
Option 2 ID : **3767496098**
Option 3 ID : **3767496099**
Option 4 ID : **3767496100**
Status : **Answered**
Chosen Option : **3**

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Q.26

Match the **LIST-I** with **LIST-II**

LIST-I (Population Mean (μ) and $\frac{1}{N}\sum x_i^2$)		**LIST-II** (Population Standard Deviation (σ))	
A.	$\mu = 3, \frac{1}{N}\sum x_i^2 = 90$	I.	12
B.	$\mu = 4, \frac{1}{N}\sum x_i^2 = 116$	II.	11
C.	$\mu = 5, \frac{1}{N}\sum x_i^2 = 146$	III.	9
D.	$\mu = 6, \frac{1}{N}\sum x_i^2 = 180$	IV.	10

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV

2. A-II, B-III, C-IV, D-I

3. A-III, B-IV, C-II, D-I

4. A-IV, B-III, C-II, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491556**
Option 1 ID : **3767496057**
Option 2 ID : **3767496058**
Option 3 ID : **3767496059**
Option 4 ID : **3767496060**
Status : **Answered**
Chosen Option : **3**

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Q.27

सूची I के साथ **सूची II** का मिलान किजिए:

सूची I (विद्वान्)		**सूची II (विशेषज्ञता)**	
A.	ब्रह्मगुप्त	I.	राजनीतिक रणनीतिज्ञ
B.	कौटिल्य	II.	योग
C.	पतंजलि	III.	चिकित्सक
D.	चरक	IV.	गणितज्ञ

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन किजिए:

1. A-I, B-II, C-III, D-IV

2. A-II, B-III, C-IV, D-I

3. A-III, B-IV, C-I, D-II

4. A-IV, B-I, C-II, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491586**
Option 1 ID : **3767496177**
Option 2 ID : **3767496178**
Option 3 ID : **3767496179**
Option 4 ID : **3767496180**
Status : **Answered**
Chosen Option : **4**

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Q.28 Find the number that can replace question mark (?) in the series given below"
21, 22, 26, 35, 51, ?

1. 62

2. 66

3. 86

4. 76

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491563**
Option 1 ID : **3767496085**
Option 2 ID : **3767496086**
Option 3 ID : **3767496087**
Option 4 ID : **3767496088**
Status : **Answered**
Chosen Option : **4**

Q.29 Identify the variables associated with interval scale of measurement:

A. Time of the day in 24-hour format
B. Date of birth
C. Weight
D. Height

Choose the ***correct*** answer from the options given below:

1. A and B Only

2. C and D Only

3. A, C and D Only

4. A Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491554**
Option 1 ID : **3767496049**
Option 2 ID : **3767496050**
Option 3 ID : **3767496051**
Option 4 ID : **3767496052**
Status : **Answered**
Chosen Option : **3**

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Q.30

Match the **LIST-I** with **LIST-II**

LIST-I (Model of cognitive apprenticeship)		LIST-II (Meaning)	
A.	Modelling	I.	Helping learner in starting and gradually fading the support
B.	Scaffolding	II.	Searching for new information, verifying to accept it as authentic knowledge
C.	Articulation	III.	Observing the performance of an expert
D.	Exploration	IV.	Giving words to their understanding of the process and content

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-II, D-I

2. A-III, B-I, C-IV, D-II

3. A-II, B-IV, C-I, D-III

4. A-I, B-II, C-III, D-IV

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491551**
Option 1 ID : **3767496037**
Option 2 ID : **3767496038**
Option 3 ID : **3767496039**
Option 4 ID : **3767496040**
Status : **Answered**
Chosen Option : **3**

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Q.31 नैयायिकों के अनुसार जब हम एक पात्र को प्रत्यक्ष देखते हैं, तो हम निम्न में से किस के कारण सामान्य 'पात्रता' को उसके परिभाषक गुण के रूप में देखते हैं ?

1. योगज
2. अनुमान
3. ज्ञान लक्षण
4. सामान्य लक्षण

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491567**
Option 1 ID : **3767496101**
Option 2 ID : **3767496102**
Option 3 ID : **3767496103**
Option 4 ID : **3767496104**
Status : **Answered**
Chosen Option : **3**

Q.32 Arrange the following in the correct order of their appearance in the APA style of journal article referencing.

A. Name of journal in italics
B. doi
C. Initials of author
D. Title of article

Choose the *correct* answer from the options given below:

1. A, B, C, D
2. B, C, D, A
3. C, D, A, B
4. D, A, B, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491555**
Option 1 ID : **3767496053**
Option 2 ID : **3767496054**
Option 3 ID : **3767496055**
Option 4 ID : **3767496056**
Status : **Answered**
Chosen Option : **1**

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Q.33

"Step on scale, please" represents which function of the language?

1. Informative

2. Expressive

3. Directive

4. Performative

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491568**
Option 1 ID : **3767496105**
Option 2 ID : **3767496106**
Option 3 ID : **3767496107**
Option 4 ID : **3767496108**
Status : **Answered**
Chosen Option : **3**

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Q.34

Identify the chronological sequence of the following organisations:

A. Associated press
B. A. C. Nielsen
C. Academy of motion picture Arts and Sciences
D. Al Jazeera
E. Federal communications commission

Choose the ***correct*** answer from the options given below:

1. A, B, C, E, D

2. B, D, E, C, A

3. E, C, A, D, B

4. B, C, E, A, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491560**
Option 1 ID : **3767496073**
Option 2 ID : **3767496074**
Option 3 ID : **3767496075**
Option 4 ID : **3767496076**
Status : **Answered**
Chosen Option : **4**

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Q.35

'Fear of missing out' is part of

1. Mass communication concentration

2. Internet addiction

3. Media control

4. Media fragmentation

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491558**
Option 1 ID : **3767496065**
Option 2 ID : **3767496066**
Option 3 ID : **3767496067**
Option 4 ID : **3767496068**
Status : **Answered**
Chosen Option : **4**

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Q.36

Match the **LIST-I** with **LIST-II**

LIST-I (Concept)		LIST-II (Description)	
A.	Media intrusion	I.	Focuses on the practical use of knowledge
B.	Social capital	II.	Subversion of politics by media
C.	Media literacy	III.	The influence of potential leaders because of social group membership and participation
D.	Pragmatism	IV.	The ability to analyse media messages

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV

2. A-II, B-III, C-IV, D-I

3. A-III, B-IV, C-I, D-II

4. A-IV, B-I, C-II, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491561**
Option 1 ID : **3767496077**
Option 2 ID : **3767496078**
Option 3 ID : **3767496079**
Option 4 ID : **3767496080**
Status : **Answered**
Chosen Option : **2**

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Q.37

Find the value of the given expression correct upto 2 decimal places.

$$\frac{0.05\times0.05\times0.05+0.04\times0.04\times0.04}{0.05\times0.05-0.05\times0.04+0.04\times0.04}$$

1. 0.19

2. 0.09

3. 0.90

4. 0.85

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491564**
Option 1 ID : **3767496089**
Option 2 ID : **3767496090**
Option 3 ID : **3767496091**
Option 4 ID : **3767496092**
Status : **Answered**
Chosen Option : **1**

Q.38

सुप्रसिद्ध 'वुड्स डिस्पैच' को प्रायः भारत में अंग्रेजी शिक्षा के _____ के रूप में वर्णित किया जाता है।

1. अधिकारों का विधेयक

2. जनता का चार्टर

3. प्रस्तावना

4. मैग्ना कार्टा (महाधिकार पत्र)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491582**
Option 1 ID : **3767496161**
Option 2 ID : **3767496162**
Option 3 ID : **3767496163**
Option 4 ID : **3767496164**
Status : **Answered**
Chosen Option : **3**

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Q.39

Match the **LIST-I** with **LIST-II**

	LIST-I (Question)		LIST-II (Answer)
A.	The speed of a CPU is measured in _____.	I.	Inches
B.	Storage capacity of data is measured in _____.	II.	Hertz
C.	Network bandwidth is measured in _____.	III.	bits per second
D.	Size of a computer monitor is measured in _____ diagonally from corner to the opposite corner.	IV.	Bytes

Choose the **correct** answer from the options given below:

1. A-I, B-III, C-IV, D-II

2. A-III, B-II, C-I, D-IV

3. A-IV, B-I, C-II, D-III

4. A-II, B-IV, C-III, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491576**
Option 1 ID : **3767496137**
Option 2 ID : **3767496138**
Option 3 ID : **3767496139**
Option 4 ID : **3767496140**
Status : **Answered**
Chosen Option : **4**

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Q.40 Which of the following statements A-D are true with reference to high-level computer programming languages?

A. These need to be translated into machine code in order to run on a computer.
B. These are written using mnemonic codes.
C. These are specific to the computer's hardware.
D. These are portable languages.

Choose the ***correct*** answer from the options given below:

1. B and C Only

2. A and B Only

3. A and D Only

4. C and D Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491575**
Option 1 ID : **3767496133**
Option 2 ID : **3767496134**
Option 3 ID : **3767496135**
Option 4 ID : **3767496136**
Status : **Answered**
Chosen Option : **3**

Q.41 Knowledge is arrived at through the gathering of facts that provide the basis for laws. This refers to the principle of

1. Deducitivism

2. Constructionism

3. Objectivism

4. Inductivism

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491552**
Option 1 ID : **3767496041**
Option 2 ID : **3767496042**
Option 3 ID : **3767496043**
Option 4 ID : **3767496044**
Status : **Answered**
Chosen Option : **2**

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Q.42 Identify the correct chronological sequence of the establishment of the following institutions in India.

A. Siddhartha college, Mumbai
B. Milind College
C. P.W.S. Arts and Commerce College
D. Khalsa College
E. Dr. Babasaheb Ambedkar College of Arts, Science and Commerce

Choose the ***correct*** answer from the options given below:

1. A, E, C, D, B

2. B, C, E, A, D

3. C, B, A, E, D

4. D, A, B, E, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491585**
Option 1 ID : **3767496173**
Option 2 ID : **3767496174**
Option 3 ID : **3767496175**
Option 4 ID : **3767496176**
Status : **Answered**
Chosen Option : **3**

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Q.43

सूची I के साथ **सूची II** का मिलान किजिए:

सूची I (जल गुणवत्ता के प्राचल)		**सूची II (व्याख्या)**	
A.	बोओडी	I.	जल में कार्बनिक पदार्थ की मात्रा
B.	डीओ	II.	जल की अम्लीय/क्षारीय/ उदासीन प्रकृति
C.	सीओडी	III.	सूक्ष्मजीवों द्वारा ग्रहण की गयी ऑक्सीजन
D.	पीएच (pH)	IV.	जल में ऑक्सीजन की मात्रा

नीचे दिए गए विकल्पों में से **सही** उत्तर का चयन किजिए:

1. A-III, B-IV, C-II, D-I

2. A-III, B-IV, C-I, D-II

3. A-I, B-II, C-III, D-IV

4. A-I, B-II, C-IV, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491580**
Option 1 ID : **3767496153**
Option 2 ID : **3767496154**
Option 3 ID : **3767496155**
Option 4 ID : **3767496156**
Status : **Answered**
Chosen Option : **3**

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Q.44 न्यायवाक्यीय नियमों के संदर्भ में निम्न में से कौन सही है ?

1. दो नकारात्मक आधार वाक्यों से, एक नकारात्मक निष्कर्ष निकाला जाता है
2. आधार वाक्यों में वितरित कोई भी पद निष्कर्ष में अवश्य ही वितरित होना चाहिए
3. मध्यपद दोनों आधार वाक्यों में अवश्य वितरित होना चाहिए
4. न्यायवाक्यीय युक्ति में केवल तीन पद होने चाहिए

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491571**
Option 1 ID : **3767496117**
Option 2 ID : **3767496118**
Option 3 ID : **3767496119**
Option 4 ID : **3767496120**
Status : **Answered**
Chosen Option : **1**

Q.45 When older media find new functions because their earlier functions are taken over by new technologies, the phenomenon is known as

1. Functional displacement
2. Alternative journalism
3. Existentialism
4. Experimentalism

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491557**
Option 1 ID : **3767496061**
Option 2 ID : **3767496062**
Option 3 ID : **3767496063**
Option 4 ID : **3767496064**
Status : **Answered**
Chosen Option : **4**

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Comprehension:

Read the following passage and answer the questions that follow.

A radical new surgery procedure, laughed at not long ago, is holding out fresh hope for patients of cardiac myopathy, or enlargement of the heart. The technique, now in India, allows patients to go home two weeks after the operation, to lead a near-normal sedentary life. Cardiac myopathy is a condition that has a variety of causative factors. An attack from one of the 20 identified viruses, parasite infection, long-term alcohol abuse and blood pressure could bring it on, and in rare cases, it could follow child birth and is even known to run in families. The condition is marked by an increase in the size of the heart's chambers and a decrease in the efficiency of pumping.

SubQuestion No : 46

Q.46

Cardiac myopathy is a medical condition related to

1. The heart
2. The eyes
3. The muscles of the legs
4. Body movement

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491588**
Option 1 ID : **3767496181**
Option 2 ID : **3767496182**
Option 3 ID : **3767496183**
Option 4 ID : **3767496184**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Read the following passage and answer the questions that follow.

A radical new surgery procedure, laughed at not long ago, is holding out fresh hope for patients of cardiac myopathy, or enlargement of the heart. The technique, now in India, allows patients to go home two weeks after the operation, to lead a near-normal sedentary life. Cardiac myopathy is a condition that has a variety of causative factors. An attack from one of the 20 identified viruses, parasite infection, long-term alcohol abuse and blood pressure could bring it on, and in rare cases, it could follow child birth and is even known to run in families. The condition is marked by an increase in the size of the heart's chambers and a decrease in the efficiency of pumping.

SubQuestion No : 47

Q.47 Which of the following is incorrect about the causative factors of cardiac myopathy?

1. Attack by certain identified viruses

2. Long-term alcohol abuse

3. Overeating

4. Heredity

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491591**
Option 1 ID : **3767496193**
Option 2 ID : **3767496194**
Option 3 ID : **3767496195**
Option 4 ID : **3767496196**
Status : **Answered**
Chosen Option : **3**

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Comprehension:

निम्नलिखित गद्यांश को पढ़िये और नीचे दिये गये प्रश्नों के उत्तर दीजिये :

एक आमूल परिवर्तनवादी शल्य प्रक्रिया, जिसकी हाल तक हंसी उड़ाई जाती थी, कार्डियक मायोपैथी या हृदय परिवर्धन के रोगियों के लिए नई आशा बना हुई है। अब भारत में उपलब्ध यह तकनीक ऑपरेशन के दो सप्ताह बाद रोगियों को लगभग सामान्य निष्क्रिय जीवन व्यतीत करने के लिए घर जाने देती है। कार्डियक मायोपैथी एक दशा है जिसमें कई प्रकार के कारण-वाचक कारक होते हैं। 20 चिन्हित विषाणुओं में से एक के आक्रमण, परजीवी संक्रमण, दीर्घकालिक मदिरा-पान और रक्त चाप के कारण यह हो सकता है और दुर्लभ मामलों में शिशु के जन्म के बाद हो सकता है और यहाँ तक कि परिवारों में चलते रहने के लिए भी जाना जाता है। इस दशा का लक्षण हृदय के कक्ष के आकार का बढ़ना और पम्पिंग की दक्षता में कमी आना हैं।

SubQuestion No : 48

Q.48

कार्डियक मायोपैथी से ग्रस्त रोगियों में होता है :

1. हृदय की बढ़ी हुई धड़कन
2. हृदय के धड़कन का धीमा होना
3. हृदय तक रक्त के प्रवाह में वृद्धि
4. हृदय तक रक्त का सामान्य प्रवाह

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491589**
Option 1 ID : **3767496185**
Option 2 ID : **3767496186**
Option 3 ID : **3767496187**
Option 4 ID : **3767496188**
Status : **Answered**
Chosen Option : **2**

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Comprehension:

निम्नलिखित गद्यांश को पढ़िये और नीचे दिये गये प्रश्नों के उत्तर दीजिये :

एक आमूल परिवर्तनवादी शल्य प्रक्रिया, जिसकी हाल तक हंसी उड़ाई जाती थी, कार्डियक मायोपैथी या हृदय परिवर्धन के रोगियों के लिए नई आशा बना हुई है। अब भारत में उपलब्ध यह तकनीक ऑपरेशन के दो सप्ताह बाद रोगियों को लगभग सामान्य निष्क्रिय जीवन व्यतीत करने के लिए घर जाने देती है। कार्डियक मायोपैथी एक दशा है जिसमें कई प्रकार के कारण-वाचक कारक होते हैं। 20 चिन्हित विषाणुओं में से एक के आक्रमण, परजीवी संक्रमण, दीर्घकालिक मदिरा-पान और रक्त चाप के कारण यह हो सकता है और दुर्लभ मामलों में शिशु के जन्म के बाद हो सकता है और यहाँ तक कि परिवारों में चलते रहने के लिए भी जाना जाता है। इस दशा का लक्षण हृदय के कक्ष के आकार का बढ़ना और पम्पिंग की दक्षता में कमी आना हैं।

SubQuestion No : 49

Q.49

कार्डियक मायोपैथी एक दशा है जिसका लक्षण है :

1. हृदय का सिकुड़ना
2. फेफड़ो के आकार का छोटा होना
3. फेफड़ों तक सीमित वायु प्रवाह
4. हृदय परिवर्धन

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491590**
Option 1 ID : **3767496189**
Option 2 ID : **3767496190**
Option 3 ID : **3767496191**
Option 4 ID : **3767496192**
Status : **Answered**
Chosen Option : **4**

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Comprehension:

Read the following passage and answer the questions that follow.

A radical new surgery procedure, laughed at not long ago, is holding out fresh hope for patients of cardiac myopathy, or enlargement of the heart. The technique, now in India, allows patients to go home two weeks after the operation, to lead a near-normal sedentary life. Cardiac myopathy is a condition that has a variety of causative factors. An attack from one of the 20 identified viruses, parasite infection, long-term alcohol abuse and blood pressure could bring it on, and in rare cases, it could follow child birth and is even known to run in families. The condition is marked by an increase in the size of the heart's chambers and a decrease in the efficiency of pumping.

SubQuestion No : 50

Q.50 Which of the following is true about cardiac myopathy surgery?

1. The radical new surgery procedure is now available in India.
2. It was unsuccessfully tried in India in the past.
3. Earlier patients had to stay in hospital for 4 weeks after surgery.
4. Earlier the surgery was available in only a few cities in India.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491592**
Option 1 ID : **3767496197**
Option 2 ID : **3767496198**
Option 3 ID : **3767496199**
Option 4 ID : **3767496200**
Status : **Answered**
Chosen Option : **1**

Section : **Computer Science and Applications**

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Q.51

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	RAID level 1	I.	bit-interleaved parity organization
B.	RAID level 2	II.	disk mirroring
C.	RAID level 3	III.	block-interleaved parity organization
D.	RAID level 4	IV.	ECC organization

Choose the **correct** answer from the options given below:

1. A-II, B-I, C-IV, D-III

2. A-II, B-IV, C-I, D-III

3. A-III, B-IV, C-I, D-II

4. A-IV, B-III, C-II, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491632**
Option 1 ID : **3767496357**
Option 2 ID : **3767496358**
Option 3 ID : **3767496359**
Option 4 ID : **3767496360**
Status : **Answered**
Chosen Option : **1**

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Q.52 Arrange the following graph on the basis of number of edges in increasing order [for $n > 3$]

A. K_n (Complete Graph)
B. C_n (Cycle graph)
C. W_n (Wheel graph)
D. $K_{n,n}$ (Complete Bipartite Graphs)
E. Q_n (n-cubes graph)

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. B, A, C, D, E

3. A, B, C, E, D

4. E, D, C, A, B

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491597**
Option 1 ID : **3767496217**
Option 2 ID : **3767496218**
Option 3 ID : **3767496219**
Option 4 ID : **3767496220**
Status : **Answered**
Chosen Option : **1**

Q.53 Which of the following uses only increment operations for adding and removing element at either end?

1. Queues

2. Stacks

3. Priority Queues

4. Deques

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491649**
Option 1 ID : **3767496425**
Option 2 ID : **3767496426**
Option 3 ID : **3767496427**
Option 4 ID : **3767496428**
Status : **Answered**
Chosen Option : **2**

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Q.54

The kind of symbols for basic syntactic elements of first-order logic are

A. Constant
B. Domain
C. Predicate
D. Temporal
E. Function

Choose the ***correct*** answer from the options given below:

1. B, D only

2. A, B, C only

3. A, C, E only

4. C, D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491681**
Option 1 ID : **3767496553**
Option 2 ID : **3767496554**
Option 3 ID : **3767496555**
Option 4 ID : **3767496556**
Status : **Answered**
Chosen Option : **1**

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Q.55

As per the Software Engineering Institute (SEI), the correct sequence is

A. Initial
B. Repeatable
C. Managed
D. Optimizing
E. Defined

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. A, B, E, C, D

3. A, E, C, D, B

4. A, E, B, C, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491643**
Option 1 ID : **3767496401**
Option 2 ID : **3767496402**
Option 3 ID : **3767496403**
Option 4 ID : **3767496404**
Status : **Answered**
Chosen Option : **3**

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Q.56

Which of the following is the complement of the boolean function.
A'B+CD'+A'B+CD'

1. A'B+CD'

2. (A'+B)(C+D')

3. (A+B')(C'+D)

4. AB'+CD'

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491607**
Option 1 ID : **3767496257**
Option 2 ID : **3767496258**
Option 3 ID : **3767496259**
Option 4 ID : **3767496260**
Status : **Answered**
Chosen Option : **3**

Q.57

A linear programming problem (LPP) is as follows:
Min $z=30x-18y$, subject to the constraints: $3x+4y \leq 60$, $5x-3y \geq 20$ and $x,y \geq 0$. In this feasible region, the solution of LPP is/are

A. (4, 0)
B. (2, 0)
C. (7, 5)
D. (0, 15)
E. (8,5)

Choose the ***correct*** answer from the options given below:

1. A and C only

2. B only

3. E only

4. D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491598**
Option 1 ID : **3767496221**
Option 2 ID : **3767496222**
Option 3 ID : **3767496223**
Option 4 ID : **3767496224**
Status : **Answered**
Chosen Option : **1**

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Q.58 The primary function of firewall in network security is

1. To monitor network traffic and detect anomalies.
2. To create virtual private networks for secure communication.
3. To filter incoming and outgoing network traffic based on security rules
4. To encrypt data before Transmission.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491668**
Option 1 ID : **3767496501**
Option 2 ID : **3767496502**
Option 3 ID : **3767496503**
Option 4 ID : **3767496504**
Status : **Answered**
Chosen Option : **1**

Q.59 Which of the following is not true about Global Variables:

1. The values of the Global variables which are sent to the called function may be changed inadvertently by the called function.
2. Functions are supposed to be independent and isolated modules. This character is lost, if they use global variables.
3. It is not immediately apparent to the reader which values are being sent to the called function
4. A function that uses global variables does not suffer from reusability.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491614**
Option 1 ID : **3767496285**
Option 2 ID : **3767496286**
Option 3 ID : **3767496287**
Option 4 ID : **3767496288**
Status : **Answered**
Chosen Option : **3**

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Q.60 Which of the following table contains the primary information in the data warehouse?

1. Dimension table
2. Fact table
3. Lookup table
4. Primary table

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491624**
Option 1 ID : **3767496325**
Option 2 ID : **3767496326**
Option 3 ID : **3767496327**
Option 4 ID : **3767496328**
Status : **Answered**
Chosen Option : **3**

Q.61 What is the correct sequence of steps used by knowledge base designing?

A. Ask questions about the intended interpretation.
B. Chose task domain or world to represent.
C. Select atoms to represent propositions of Interest.
D. Tells the system propositions that are true in the intended interpretation/axiomatizing the domain.

Choose the ***correct*** answer from the options given below:

1. A, B, C, D
2. B, C, D, A
3. C, D, A, B
4. D, A, B, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491679**
Option 1 ID : **3767496545**
Option 2 ID : **3767496546**
Option 3 ID : **3767496547**
Option 4 ID : **3767496548**
Status : **Answered**
Chosen Option : **2**

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Q.62

Match the **LIST-I** with **LIST-II**

	LIST-I		LIST-II
A.	Project Join Normal Form	I.	Concurrency
B.	The lost update problem	II.	Fifth Normal Form
C.	Discretionary Access Control	III.	SQL
D.	Data manipulation Language	IV.	Security

Choose the **correct** answer from the options given below:

1. A-II, B-I, C-IV, D-III

2. A-I, B-II, C-IV, D-III

3. A-I, B-II, C-III, D-IV

4. A-IV, B-II, C-III, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491630**
Option 1 ID : **3767496349**
Option 2 ID : **3767496350**
Option 3 ID : **3767496351**
Option 4 ID : **3767496352**
Status : **Answered**
Chosen Option : **1**

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Q.63 If x and y are elements in a group G and if $x^5 = y^3 = e$, where e is the identity of G, then the inverse of $x^2yx^4y^2$ must be

1. $y^2xy^2x^4$
2. yxy^2x^3
3. $yx^6y^6x^3$
4. $x^4y^2x^2y$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491595**
Option 1 ID : **3767496209**
Option 2 ID : **3767496210**
Option 3 ID : **3767496211**
Option 4 ID : **3767496212**
Status : **Answered**
Chosen Option : **4**

Q.64 If the virtual memory size is 32 MB and a physical memory size is 4MB with a page size of 2KB, Calculate the number of frames available in physical memory

1. 1024
2. 2048
3. 3072
4. 4096

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491634**
Option 1 ID : **3767496365**
Option 2 ID : **3767496366**
Option 3 ID : **3767496367**
Option 4 ID : **3767496368**
Status : **Answered**
Chosen Option : **2**

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Q.65

The degree of a relation in database is

1. the number of tuples in the relation
2. the number of attribute in the relation
3. the number of values in domian
4. the number of keys in a relation

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491626**
Option 1 ID : **3767496333**
Option 2 ID : **3767496334**
Option 3 ID : **3767496335**
Option 4 ID : **3767496336**
Status : **Answered**
Chosen Option : **4**

Q.66

The hamming distance between 10101 and 11110 is

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

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491666**
Option 1 ID : **3767496493**
Option 2 ID : **3767496494**
Option 3 ID : **3767496495**
Option 4 ID : **3767496496**
Status : **Answered**
Chosen Option : **4**

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Q.67 Which of the following is the correct sequence with regard to service routine?

A. Save contents of processor registers
B. Turn the interrupt facility on
C. Service the device whose flag is set
D. Check which flag is set
E. Restore contents of processor registers

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. D, B, C, A, E

3. D, C, B, E, A

4. A, D, C, E, B

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491609**
Option 1 ID : **3767496265**
Option 2 ID : **3767496266**
Option 3 ID : **3767496267**
Option 4 ID : **3767496268**
Status : **Answered**
Chosen Option : **3**

Q.68 Which of the following is TRUE about the Pumping Lemma for regular language?

1. It applies to all regular language

2. It applies only to infinite regular languages

3. It applies to all context - free languages

4. It applies to all recursively enumerable languages

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491657**
Option 1 ID : **3767496457**
Option 2 ID : **3767496458**
Option 3 ID : **3767496459**
Option 4 ID : **3767496460**
Status : **Answered**
Chosen Option : **3**

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Q.69

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Service Lavel Agreement	I.	The technology that connects and enables communication between physical devices over the Internet.
B.	Virtualization	II.	A develop environment provides over the Internet to create and deploy applications.
C.	Internet of Things	III.	Contracts that specify performance standards and services availability.
D.	Platform as a service	IV.	A method allowing multiple operating system to run on a single physical server

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-I, D-IV

2. A-III, B-IV, C-I, D-II

3. A-III, B-I, C-IV, D- I

4. A-I, B-IV, C-III, D-II

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491671**
Option 1 ID : **3767496513**
Option 2 ID : **3767496514**
Option 3 ID : **3767496515**
Option 4 ID : **3767496516**
Status : **Answered**
Chosen Option : **2**

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Q.70

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Breadth First Search	I.	LISP
B.	Depth First Search	II.	Syntax tree
C.	Prefix	III.	Stack
D.	Infix	IV.	Queue

Choose the **correct** answer from the options given below:

1. A-III, B-IV, C-I, D-II

2. A-III, B-IV, C-II, D-I

3. A-IV, B-II, C-III, D-I

4. A-IV, B-III, C-I, D-II

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491656**
Option 1 ID : **3767496453**
Option 2 ID : **3767496454**
Option 3 ID : **3767496455**
Option 4 ID : **3767496456**
Status : **Answered**
Chosen Option : **2**

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Q.71 Which of the following description(s) is/are true:

A. Red Black Tree - Guarantees worst case of O(log n) time for search, insert & delete.
B. Trie - Used for efficient prefix - based searches.
C. AVL Tree - self balancing binary search tree with stricker balance criteria.
D. B- Tree - Allows efficient search, inert, delete operations in disk based system.

Choose the ***correct*** answer from the options given below:

1. A & B only

2. C & D only

3. B only

4. A, B & D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491647**
Option 1 ID : **3767496417**
Option 2 ID : **3767496418**
Option 3 ID : **3767496419**
Option 4 ID : **3767496420**
Status : **Answered**
Chosen Option : **2**

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Q.72

Which of the following are correct for the neural network?

A. The training time depends upon the size of network.
B. Neural network can be simulated on the conventional computer.
C. Neural network mimic the same way as that of the humans brain.
D. A neural network include feedback.

Choose the ***correct*** answer from the options given below:

1. A and B only

2. A, C and D only

3. A, B and C only

4. A and C only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491680**
Option 1 ID : **3767496549**
Option 2 ID : **3767496550**
Option 3 ID : **3767496551**
Option 4 ID : **3767496552**
Status : **Answered**
Chosen Option : **3**

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Q.73 The characteristics of modern programming are :

A. Each module should do only one thing.
B. Communication between modules is allowed only by a calling module.
C. Communication can take place directly between modules that do not have calling - called relationship.
D. All modules are designed as single-entry, single exit systems using control structure.

Choose the ***correct*** answer from the options given below:

1. A, B & C only

2. A, B & D only

3. A, C & D only

4. C & D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491621**
Option 1 ID : **3767496313**
Option 2 ID : **3767496314**
Option 3 ID : **3767496315**
Option 4 ID : **3767496316**
Status : **Answered**
Chosen Option : **1**

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Q.74

Find the correct sequence of prototype software development model.

A. Start
B. Develop Prototype
C. Deliver to customer
D. Quick Design
E. Quick Play

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. A, E, D, B, C

3. A, B, D, E, C

4. A, B, E D, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491642**
Option 1 ID : **3767496397**
Option 2 ID : **3767496398**
Option 3 ID : **3767496399**
Option 4 ID : **3767496400**
Status : **Answered**
Chosen Option : **3**

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Q.75 Choose the correct statements from the following

A. In connection oriented service, the destination address is to be specified only during the setup.
B. Packet sequencing is not guaranteed in connection oriented service
C. Flooding is method in which every incoming packet is sent out on every outgoing line except the one by which it arrived.
D. Presentation layer performs detection and recovery from errors in the transmitted data.

Choose the ***correct*** answer from the options given below:

1. A, B & C only

2. B, C & D only

3. A & C only

4. A, C & D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491674**
Option 1 ID : **3767496525**
Option 2 ID : **3767496526**
Option 3 ID : **3767496527**
Option 4 ID : **3767496528**
Status : **Answered**
Chosen Option : **3**

Q.76 Which of the following does not interrupt a running process?

1. Device

2. Timer

3. Scheduler

4. Power Failure

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491635**
Option 1 ID : **3767496369**
Option 2 ID : **3767496370**
Option 3 ID : **3767496371**
Option 4 ID : **3767496372**
Status : **Answered**
Chosen Option : **3**

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Q.77

What will be the right sequence of the phases of database design-

A. Physical Design
B. Conceptual Design
C. Logical Design
D. Requirement collection and analysis

Choose the ***correct*** answer from the options given below:

1. D, A, B, C

2. D, B, C, A

3. D, B, A, C

4. D, A, C, B

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491627**
Option 1 ID : **3767496337**
Option 2 ID : **3767496338**
Option 3 ID : **3767496339**
Option 4 ID : **3767496340**
Status : **Answered**
Chosen Option : **1**

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Q.78

An alternate key in database table is also called

1. Primary key
2. Candidate key
3. Super key
4. Foreign key

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491625**
Option 1 ID : **3767496329**
Option 2 ID : **3767496330**
Option 3 ID : **3767496331**
Option 4 ID : **3767496332**
Status : **Answered**
Chosen Option : **2**

Q.79

In concurrency control, phantom problem may occur, when-

1. records are inserted
2. records are deleted
3. records are modified
4. records are indexed

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491623**
Option 1 ID : **3767496321**
Option 2 ID : **3767496322**
Option 3 ID : **3767496323**
Option 4 ID : **3767496324**
Status : **Answered**
Chosen Option : **1**

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Q.80

Which of the following statements are true about the sets.

A. $0 \in \emptyset$
B. $\emptyset \in \{0\}$
C. $\emptyset \in \{\emptyset\}$
D. $\{\emptyset\} \in \{\emptyset\}$
E. $\{\emptyset\} \subset \{\emptyset, \{\emptyset\}\}$

Choose the ***correct*** answer from the options given below:

1. A, B, C, D and E

2. A, B, C and E only

3. A, C only

4. C and E only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491599**
Option 1 ID : **3767496225**
Option 2 ID : **3767496226**
Option 3 ID : **3767496227**
Option 4 ID : **3767496228**
Status : **Answered**
Chosen Option : **4**

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Q.81

INSERT command is used to

A. add a single tuple to a relation
B. add multiple tuples to a relation
C. add values to specific attributes
D. insert new table

Choose the ***correct*** answer from the options given below:

1. A only

2. A, B only

3. A, B, C only

4. B, C, D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491629**
Option 1 ID : **3767496345**
Option 2 ID : **3767496346**
Option 3 ID : **3767496347**
Option 4 ID : **3767496348**
Status : **Answered**
Chosen Option : **2**

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Q.82

Correct the order of instruction cycle:

A. Read the effective address
B. Fetch the information
C. Execute the instruction
D. Decode the instruction

Choose the ***correct*** answer from the options given below:

1. A, B, C, D

2. B, D, A, C

3. B, A, D, C

4. A, B, D, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491608**
Option 1 ID : **3767496261**
Option 2 ID : **3767496262**
Option 3 ID : **3767496263**
Option 4 ID : **3767496264**
Status : **Answered**
Chosen Option : **4**

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Q.83 Arrange the following steps of the DHCP (Dynamic Host Control Protocol) process in the correct - sequence.

A. DHC PACK
B. DHCP DISCOVER
C. DHCP OFFER
D. DHCP REQUEST
E. Client receives IP configuration

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. B, C, D, A, E

3. C, B, A, E, D

4. D, A, E, C, B

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491664**
Option 1 ID : **3767496485**
Option 2 ID : **3767496486**
Option 3 ID : **3767496487**
Option 4 ID : **3767496488**
Status : **Answered**
Chosen Option : **2**

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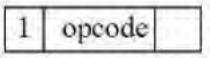
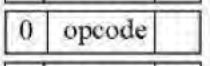
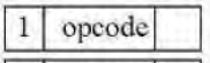
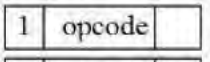
Q.84

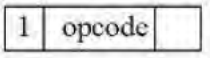
Which of the following do not represent memory reference instruction.

A.  mode = 1, opcode = 010

B.  mode = 0, opcode = 111

C.  mode = 1, opcode = 111

D.  mode = 1, opcode = 110

E.  mode = 1, opcode = 001

Choose the ***correct*** answer from the options given below:

1. B & C only

2. B & D only

3. A & D only

4. A & E only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491611**
Option 1 ID : **3767496273**
Option 2 ID : **3767496274**
Option 3 ID : **3767496275**
Option 4 ID : **3767496276**
Status : **Answered**
Chosen Option : **1**

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Q.85 The light given off by the phosphor during exposure to the electron beam is known as

1. Fluorescence
2. Phosphorescence
3. Persistence
4. Retracing

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491616**
Option 1 ID : **3767496293**
Option 2 ID : **3767496294**
Option 3 ID : **3767496295**
Option 4 ID : **3767496296**
Status : **Answered**
Chosen Option : **2**

Q.86 Which of the following is not a divide and conquer method

1. Binary Search
2. Merge Sort
3. Quick Sort
4. Heap Sort

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491648**
Option 1 ID : **3767496421**
Option 2 ID : **3767496422**
Option 3 ID : **3767496423**
Option 4 ID : **3767496424**
Status : **Answered**
Chosen Option : **4**

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Q.87

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	$(100110011)_2$	I.	Error detection code
B.	Complements	II.	CISC
C.	Parity Bits	III.	Negative number
D.	Variable length instruction	IV.	$(133)_{16}$

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-III, D-II

2. A-IV, B-III, C-I, D-II

3. A-IV, B-II, C-III, D-I

4. A-I, B-IV, C-II, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491612**
Option 1 ID : **3767496277**
Option 2 ID : **3767496278**
Option 3 ID : **3767496279**
Option 4 ID : **3767496280**
Status : **Answered**
Chosen Option : **2**

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Q.88 Which one of the following is not a basic solution of system of linear equation

$x_1 + 2x_2 + x_3 = 4$

$2x_1 + x_2 + 5x_3 = 5$

1. $x_1 = -1, x_2 = 2, x_3 = 1$

2. $x_1 = 2, x_2 = 1$

3. $x_1 = 5, x_3 = -1$

4. $x_2 = 5/3, x_3 = 2/3$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491596**
Option 1 ID : **3767496213**
Option 2 ID : **3767496214**
Option 3 ID : **3767496215**
Option 4 ID : **3767496216**
Status : **Answered**
Chosen Option : **4**

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Q.89

Match the **LIST-I** with **LIST-II**

	LIST-I Algorithm		**LIST-II Complexity**
A.	Insertion Sort	I.	O(log n)
B.	Binary Search	II.	$O(n^2)$
C.	Quick Sort	III.	O(n-1)
D.	Selection Sort	IV.	O(n log n)

Choose the **correct** answer from the options given below:

1. A-III, B-I, C-IV, D-II

2. A-II, B-III, C-I, D-IV

3. A-I, B-II, C-IV, D-III

4. A-II, B-III, C-IV, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491655**
Option 1 ID : **3767496449**
Option 2 ID : **3767496450**
Option 3 ID : **3767496451**
Option 4 ID : **3767496452**
Status : **Answered**
Chosen Option : **1**

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Q.90 Consider the following statements regarding multiple access techniques & identify the CORRECT ones.

A. ALOHA is used for multiple access on a shared medium
B. TDMA uses WALSH TABLES for time slot allocation
C. CSMA/CD was invented for wireless networks
D. CDMA codes are sequence of number generated by orthogonal codes

Choose the ***correct*** answer from the options given below:

1. A & B only

2. B & C only

3. C & D only

4. A & D only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491665**
Option 1 ID : **3767496489**
Option 2 ID : **3767496490**
Option 3 ID : **3767496491**
Option 4 ID : **3767496492**
Status : **Answered**
Chosen Option : **2**

Q.91 Which of the following is not a component of the classic Planning Definition?

1. Init

2. Domain

3. Action

4. Goal

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491678**
Option 1 ID : **3767496541**
Option 2 ID : **3767496542**
Option 3 ID : **3767496543**
Option 4 ID : **3767496544**
Status : **Answered**
Chosen Option : **1**

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Q.92

Match the **LIST-I** with **LIST-II**

LIST-I Boolean Algebra Law		LIST-II Axioms	
A.	Absorption Law	I.	a+1=1
B.	Bounded Law	II.	a+0=a
C.	Identity Law	III.	a*(b+c)=(a*b)+(a*c)
D.	Distributive Law	IV.	a+(a*b)=a

Choose the **correct** answer from the options given below:

1. A-IV, B-I, C-II, D-III

2. A-IV, B-III, C-I, D-II

3. A-III, B-IV, C-II, D-I

4. A-II, B-III, C-IV, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491601**
Option 1 ID : **3767496233**
Option 2 ID : **3767496234**
Option 3 ID : **3767496235**
Option 4 ID : **3767496236**
Status : **Answered**
Chosen Option : **3**

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Q.93

Which of the following is the simplified form of the given function.
$f(A,B,C)=\sum m(0,1,3,7)$

1. A'B'C'+A'B'C+A'BC+ABC

2. A'B'+A'BC+ABC

3. A'B'+BC

4. A'B'+BC'

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491606**
Option 1 ID : **3767496253**
Option 2 ID : **3767496254**
Option 3 ID : **3767496255**
Option 4 ID : **3767496256**
Status : **Answered**
Chosen Option : **4**

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Q.94

Regarding the code optimization, choose the correct sequence

A. Algebraic Simplification
B. Use of machine idioms
C. Redundant - instruction elimination
D. Flow of control optimization
E. Improved target code

Choose the ***correct*** answer from the options given below:

1. A, C, B, D, E

2. B, C, D, A, E

3. C, D, A, B, E

4. D, B, A, C, E

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491660**
Option 1 ID : **3767496469**
Option 2 ID : **3767496470**
Option 3 ID : **3767496471**
Option 4 ID : **3767496472**
Status : **Answered**
Chosen Option : **3**

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Q.95

Match the **LIST-I** with **LIST-II**

LIST-I (FUNCTIONS)		LIST-II (Uses of functions)	
A.	fseek ()	I.	Gives the current position in the file
B.	ftell()	II.	Sets the position to the beginning of the file
C.	feof ()	III.	Sets the position to a desired point in the file
D.	rewind()	IV.	Used to test for an end of file condition.

Choose the **correct** answer from the options given below:

1. A-II, B-III, C-I, D-IV

2. A-III, B-I, C-IV, D-II

3. A-III, B-I, CII-, D-IV

4. A-II, B-IV, C-III, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491619**
Option 1 ID : **3767496305**
Option 2 ID : **3767496306**
Option 3 ID : **3767496307**
Option 4 ID : **3767496308**
Status : **Answered**
Chosen Option : **2**

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Q.96

The probability that A hits a target is $\frac{1}{4}$, and the probability that B hits the target is $\frac{2}{3}$. Both shoot at the target, what is the probability that at least one of them hits the target, i.e., that A or B (or both) hit the target?

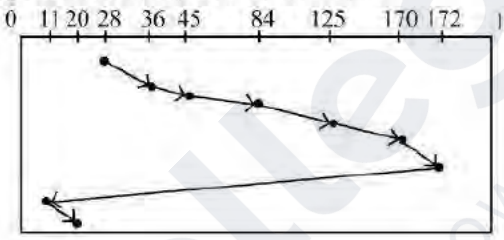
1. $\frac{3}{5}$
2. $\frac{11}{9}$
3. $\frac{2}{20}$
4. $\frac{11}{20}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491594**
Option 1 ID : **3767496205**
Option 2 ID : **3767496206**
Option 3 ID : **3767496207**
Option 4 ID : **3767496208**
Status : **Answered**
Chosen Option : **4**

Q.97

Consider the following Graph of disk scheduling and identify the disk scheduling algorithm representing by this graph.
Queue 84, 125, 11, 36, 170, 20, 172, 45



1. SSTF
2. SCAN
3. C-SCAN
4. C-LOOK

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491637**
Option 1 ID : **3767496377**
Option 2 ID : **3767496378**
Option 3 ID : **3767496379**
Option 4 ID : **3767496380**
Status : **Answered**
Chosen Option : **1**

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Q.98 Given the following processes with their times and priority (lower number indicates higher priority)

Process	Burst Time	Priority
P_1	10	3
P_2	1	1
P_3	2	4
P_4	1	5
P_5	5	2

Which of the following is a value of average waiting time using priority scheduling algorithm?

1. 9.2
2. 6.8
3. 7.6
4. 8.2

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491633**
Option 1 ID : **3767496361**
Option 2 ID : **3767496362**
Option 3 ID : **3767496363**
Option 4 ID : **3767496364**
Status : **Answered**
Chosen Option : **1**

Q.99 The entire set of parameters, including return address that is stored for a procedure invocation is referred to

1. stack frame
2. stack base
3. stack limit
4. stack record

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491636**
Option 1 ID : **3767496373**
Option 2 ID : **3767496374**
Option 3 ID : **3767496375**
Option 4 ID : **3767496376**
Status : **Answered**
Chosen Option : **1**

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Q.100 Software Testability is simply how easily a software program can be tested. Which one characteristics does not lead to testable software?

1. Observability
2. Controllability
3. Repairability
4. Understandability

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491641**
Option 1 ID : **3767496393**
Option 2 ID : **3767496394**
Option 3 ID : **3767496395**
Option 4 ID : **3767496396**
Status : **Answered**
Chosen Option : **1**

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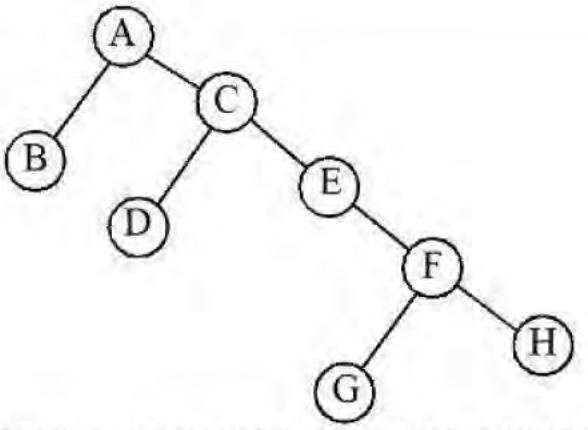
Q.101



Considering above binary tree, what will be the inorder traversal

1. B A D C E G F H

2. G H F E D C B A

3. B A C D E G F H

4. G H F D E B C A

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491650**
Option 1 ID : **3767496429**
Option 2 ID : **3767496430**
Option 3 ID : **3767496431**
Option 4 ID : **3767496432**
Status : **Answered**
Chosen Option : **1**

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Q.102 Consider a pipeline unit for fixed - point multiplication of 8-bit integers. Arrange the following stages in a correct sequence.
Stage A : Consists of two CSAs and it merges four numbers from previous stage.
Stage B : is a CPA, which adds up the two numbers
Stage C : is made upto two level of four CSAs.
Stage D : Generates eight partial products.
Choose the ***correct*** answer from the options given below:

1. C, A, B, D

2. D, C, A, B

3. B, D, C, A

4. A, C, D, B

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491602**
Option 1 ID : **3767496237**
Option 2 ID : **3767496238**
Option 3 ID : **3767496239**
Option 4 ID : **3767496240**
Status : **Answered**
Chosen Option : **2**

Q.103 Which of the following/s is/are FALSE statement?

A. An all key relation is always in BCNF since it has no FDs.
B. A relation that is not in 4NF due to nontrivial MVD must be decomposed to convert it into a set of relations in 4NF.
C. The decomposition removes the redundancy by the MVD.
D. 3NF is stronger than BCNF.

Choose the ***correct*** answer from the options given below:

1. A only

2. A, B only

3. D only

4. C only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491628**
Option 1 ID : **3767496341**
Option 2 ID : **3767496342**
Option 3 ID : **3767496343**
Option 4 ID : **3767496344**
Status : **Answered**
Chosen Option : **3**

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Q.104 Arrange the 2-D viewing transformation pipeline.

A. Convert world-coordinates to viewing coordinates
B. Map viewing coordinates to normalized viewing coordinates using window - viewpoint specifications
C. Construct world - coordinates scene using modeling - coordinates transformations
D. Map normalized viewpoint to device coordinates

Choose the ***correct*** answer from the options given below:

1. D, C, B, A

2. D, C, A, B

3. D, A, B, D

4. B, C, A, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491617**
Option 1 ID : **3767496297**
Option 2 ID : **3767496298**
Option 3 ID : **3767496299**
Option 4 ID : **3767496300**
Status : **Answered**
Chosen Option : **3**

Q.105 Which one of the following is not related to the feed forward networks on the Backpropagation Algorithm

1. Boolean function

2. Continuous function

3. Arbitrary function

4. Greedy function

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491676**
Option 1 ID : **3767496533**
Option 2 ID : **3767496534**
Option 3 ID : **3767496535**
Option 4 ID : **3767496536**
Status : **Answered**
Chosen Option : **4**

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Q.106

Which of the following are not data manipulation instructions?

A. Call
B. Loud
C. And
D. Increment
E. Shift

Choose the ***correct*** answer from the options given below:

1. C & E only

2. A & B only

3. D & E only

4. A & C only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491610**
Option 1 ID : **3767496269**
Option 2 ID : **3767496270**
Option 3 ID : **3767496271**
Option 4 ID : **3767496272**
Status : **Answered**
Chosen Option : **3**

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Q.107

Match the **LIST-I** with **LIST-II**

	LIST-I (Process)		LIST-II (Functions)
A.	Internet message Access Protocol (IMAP)	I.	A protocol that allows email clients to retrieve emails from a mail server
B.	Address Resolution Protocol (ARP)	II.	Used for remove login to another computer over a network
C.	Post Office Protocol (POP)	III.	A protocol that maps IP addresses to MAC addresses on a local area network
D.	TELNET	IV.	A protocol that allows accessing email on the server without downloading them

Choose the **correct** answer from the options given below:

1. A-II, B-I, C-III, D-IV

2. A-III, B-IV, C-I, D-II

3. A-IV, B-III, C-I, D-II

4. A-IV, B-III, C-II, D-I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491672**
Option 1 ID : **3767496517**
Option 2 ID : **3767496518**
Option 3 ID : **3767496519**
Option 4 ID : **3767496520**
Status : **Answered**
Chosen Option : **2**

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Q.108

Arrange the following in the increasing order with respect to access time.

A. Solid State Drive
B. Optical Disks
C. DRAMs
D. SRAMs
E. Registers

Choose the ***correct*** answer from the options given below:

1. D, C, A, B, E

2. B, D, C, A, E

3. A, E, B, D, C

4. E, D, C, A, B

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491603**
Option 1 ID : **3767496241**
Option 2 ID : **3767496242**
Option 3 ID : **3767496243**
Option 4 ID : **3767496244**
Status : **Answered**
Chosen Option : **4**

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Q.109

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Conflict Resolution	I.	Three - Address Code
B.	Common Subsequence	II.	Precedence
C.	Quadruples	III.	Syntax Directed Translations
D.	L-Attributed definitions	IV.	Direct Acyclic Graph (DAG)

Choose the **correct** answer from the options given below:

1. A-III, B-II, C-IV, D-I

2. A-II, B-IV, C-I, D-III

3. A-II, B-III, C-I, D-IV

4. A-IV,B-I, C-II, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491663**
Option 1 ID : **3767496481**
Option 2 ID : **3767496482**
Option 3 ID : **3767496483**
Option 4 ID : **3767496484**
Status : **Answered**
Chosen Option : **1**

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Q.110

Which of the following is the solution of the following recurrence relation
$T(n) = T(2n/3) + 1$?

1. $\theta(n^2)$
2. $\theta(\log n)$
3. $\theta(n \log n)$
4. $\theta(n^{3/2})$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491651**
Option 1 ID : **3767496433**
Option 2 ID : **3767496434**
Option 3 ID : **3767496435**
Option 4 ID : **3767496436**
Status : **Answered**
Chosen Option : **4**

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Q.111

Match the **LIST-I** with **LIST-II: Match the logical equivalence propositions**

LIST-I		LIST-II	
A.	$p \rightarrow q$	I.	$(p \wedge q) \vee (\neg p \wedge \neg q)$
B.	$\neg(p \vee (\neg p \wedge q))$	II.	$\neg p \vee q$
C.	$p \leftrightarrow q$	III.	$\neg(p \vee q)$
D.	$\neg(p \leftrightarrow q)$	IV.	$\neg p \leftrightarrow q$

Choose the **correct** answer from the options given below:

1. A-I, B-III, C-II, D-IV

2. A-I, B-II, C-III, D-IV

3. A-II, B-III, C-I, D-IV

4. A-II, B-III, C-IV, D-I

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491600**
Option 1 ID : **3767496229**
Option 2 ID : **3767496230**
Option 3 ID : **3767496231**
Option 4 ID : **3767496232**
Status : **Answered**
Chosen Option : **4**

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Q.112 Which of the folowing CFG(s) is/are in chomsky Normal form (All capital letters are variables & lower case are terminals)

A. $S \to ABC / AB$
$A \to a$
$B \to b$
$C \to d$

B. $X \to RI / IR$
$I \to i$
$R \to XT / r$

C. $P \to qP / sQ$
$Q \to r / s$

D. $M \to MN / MP$
$N \to nn / n$
$P \to p$

Choose the ***correct*** answer from the options given below:

1. A & B only

2. B only

3. C only

4. B & D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491661**
Option 1 ID : **3767496473**
Option 2 ID : **3767496474**
Option 3 ID : **3767496475**
Option 4 ID : **3767496476**
Status : **Answered**
Chosen Option : **1**

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Q.113 Sequence the following stages of the sliding window protocol for flow control.

A. Sender move the window to the next set of frames.
B. Sender sends a window of frames.
C. Receiver acknowledge the received frames.
D. If acknowledgment is not received, Sender retransmits the frame.

Choose the ***correct*** answer from the options given below:

1. B, A, C, D

2. B, C, D, A

3. B, D, C, A

4. B, C, A, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491670**
Option 1 ID : **3767496509**
Option 2 ID : **3767496510**
Option 3 ID : **3767496511**
Option 4 ID : **3767496512**
Status : **Answered**
Chosen Option : **2**

Q.114 The mathematical notation to describe logical entailment of a scentence "**α** entails another sentence **β**" is

1. $\alpha \models \beta$

2. $\alpha \subseteq \beta$

3. $\beta \models \alpha$

4. $\beta \subset \alpha$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491677**
Option 1 ID : **3767496537**
Option 2 ID : **3767496538**
Option 3 ID : **3767496539**
Option 4 ID : **3767496540**
Status : **Answered**
Chosen Option : **2**

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Q.115 Which one of the following is the correct estimation model based on software equation?

1. $E = [LOC \times B^{0.222}/P]^2 \times (1/t^4)$
2. $E = [LOC \times B^{0.333}/P]^3 \times (1/t^4)$
3. $E = [LOC \times B^{0.444}/P]^4 \times (1/t^3)$
4. $E = [LOC \times B^{0.111}/P]^6 \times (1/t^3)$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491638**
Option 1 ID : **3767496381**
Option 2 ID : **3767496382**
Option 3 ID : **3767496383**
Option 4 ID : **3767496384**
Status : **Answered**
Chosen Option : **3**

Q.116 Which of the following command can be used to modify data in an SQL Table?

A. INSERT
B. DELETE
C. UPDATE
D. SELECT

Choose the ***correct*** answer from the options given below:

1. A, B, D only
2. A, C, D only
3. B, C, D only
4. A, B, C only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491622**
Option 1 ID : **3767496317**
Option 2 ID : **3767496318**
Option 3 ID : **3767496319**
Option 4 ID : **3767496320**
Status : **Answered**
Chosen Option : **4**

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Q.117 Consider following conditional statements if (m == 20 – 10 || n > 10). The order of execution of the following operations is

A. ==
B. –
C. ||
D. >

Choose the ***correct*** answer from the options given below:

1. D, B, A, C

2. B, D, C, A

3. B, D, A, C

4. A, B, D, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491618**
Option 1 ID : **3767496301**
Option 2 ID : **3767496302**
Option 3 ID : **3767496303**
Option 4 ID : **3767496304**
Status : **Answered**
Chosen Option : **1**

Q.118 Which of the following statement is not True?

1. A data member of a class can be declared as static and is normally used to maintain values common to the entire class.

2. A friend function can be invoked like a normal function without the help of any object.

3. The scope resolution operator (::) can be overloaded like normal operators

4. Multiple inheritance may lead to duplication of inherited members from a "Grandparent" base class. This may be avoided by making the common base class a virtual base class.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491613**
Option 1 ID : **3767496281**
Option 2 ID : **3767496282**
Option 3 ID : **3767496283**
Option 4 ID : **3767496284**
Status : **Answered**
Chosen Option : **2**

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Q.119

In Software Engineering Jackson's Principle based on

A. Designation
B. Definitions
C. Refutable Assertions
D. Formal Review
E. Requirement Elicitation

Choose the ***correct*** answer from the options given below:

1. A, B & C Only

2. B, C & D Only

3. C, D & E Only

4. B, D & C Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491645**
Option 1 ID : **3767496409**
Option 2 ID : **3767496410**
Option 3 ID : **3767496411**
Option 4 ID : **3767496412**
Status : **Answered**
Chosen Option : **1**

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Q.120

Collaborative document inspection technique used for?

1. Requirement Validation Process
2. Requirement Verification Process
3. Integration Testing
4. Blackbox Testing

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491639**
Option 1 ID : **3767496385**
Option 2 ID : **3767496386**
Option 3 ID : **3767496387**
Option 4 ID : **3767496388**
Status : **Answered**
Chosen Option : **4**

Q.121

Choose the correct statement(s)

A. A problem which is NP-Complete will have the property that it can be solved in polynomial time iff all other NP-complete problems can also be solved in polynomial time.
B. All NP-complete problem are NP-hard problems.
C. If an NP-hard problem can be solved in polynomial time, then all NP-complete problem can be solved in polynomial time
D. All NP-hard-problems are not NP-complete.

Choose the ***correct*** answer from the options given below:

1. A, C only
2. B, D only
3. A, B, C only
4. A, B, C, D

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491654**
Option 1 ID : **3767496445**
Option 2 ID : **3767496446**
Option 3 ID : **3767496447**
Option 4 ID : **3767496448**
Status : **Answered**
Chosen Option : **4**

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Q.122

Which of the following represents the output of the transition function(δ)

$\delta(q_0, a) = (q_1, x, R)$

$\delta(q_1, a) = (q_1, a, R)$

$\delta(q_1, y_1) = (q_1, y, R)$

$\delta(q_1, b) = (q_2, y, L)$

$\delta(q_2, y) = (q_2, y, L)$

$\delta(q_2, a) = (q_2, a, L)$

$\delta(q_2, x) = (q_0, x, R)$

$\delta(q_0, y) = (q_3, y, R)$

$\delta(q_3, y) = (q_3, y, R)$

$\delta(q_3, \square) = (q_f, \square, R)$

1. $L=\{a^n b^n | n \geq 0\}$

2. $L=\{a^n b^n | n \geq 1\}$

3. $L=\{a^n b^n |\ n > 0\}$

4. $L=\{a^n b^n |\ n > 1\}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491658**
Option 1 ID : **3767496461**
Option 2 ID : **3767496462**
Option 3 ID : **3767496463**
Option 4 ID : **3767496464**
Status : **Answered**
Chosen Option : **1**

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Q.123 Which one of the following is not the part of requirement management?

1. Features Traceability Table
2. Dependency Traceability Table
3. Interface Traceability Table
4. Page Traceability Table

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491640**
Option 1 ID : **3767496389**
Option 2 ID : **3767496390**
Option 3 ID : **3767496391**
Option 4 ID : **3767496392**
Status : **Answered**
Chosen Option : **2**

Q.124 Consider a noiseless channel with a bandwidth of 5000Hz transmitting a signal with two signal levels. The maximum bit rate is

1. 2500 bps
2. 10000 bps
3. 5000 bps
4. 20000 bps

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491667**
Option 1 ID : **3767496497**
Option 2 ID : **3767496498**
Option 3 ID : **3767496499**
Option 4 ID : **3767496500**
Status : **Answered**
Chosen Option : **1**

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Q.125 The network using CSMA/CD has a bandwidth of 20 mbps. If the maximum propagation time is 25μ sec (microsecond), what is the minimum size of the frame?

1. 500 bits
2. 1000 bits
3. 1500 bits
4. 2000 bits

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491669**
Option 1 ID : **3767496505**
Option 2 ID : **3767496506**
Option 3 ID : **3767496507**
Option 4 ID : **3767496508**
Status : **Answered**
Chosen Option : **1**

Q.126 Identify the correct statements from the following regarding spiral model.

A. Spiral model is an incremental process model.
B. Spiral model is a risk - driven process mode.
C. Spiral model is an acyclic balancing approach.
D. Spiral model involves a set of anchor point milestone.

Choose the ***correct*** answer from the options given below:

1. A & B Only
2. B & C Only
3. A & D Only
4. B & D Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491644**
Option 1 ID : **3767496405**
Option 2 ID : **3767496406**
Option 3 ID : **3767496407**
Option 4 ID : **3767496408**
Status : **Answered**
Chosen Option : **1**

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Q.127 Arrange the following steps of the Inorder Traversal of Binary Tree in the correct order.

A. Visit the Left subtree
B. Visit the Root node
C. Visit the Right subtree
D. Start traversing by visiting the nodes in rooted tree
E. Repeat the above three steps.

Choose the ***correct*** answer from the options given below:

1. A, B, C, D, E

2. E, A, B, C, D

3. D, A, B, C, E

4. D, A, E, B, C

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491652**
Option 1 ID : **3767496437**
Option 2 ID : **3767496438**
Option 3 ID : **3767496439**
Option 4 ID : **3767496440**
Status : **Answered**
Chosen Option : **1**

Q.128 Definition's of ___ organized into following four categories namely, Thinking Humanly, Thinking Rationally, Acting Humanly, Acting Rationally

1. Machine Learning

2. Deep Learning

3. Artificial Intelligence

4. Neural Network

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491675**
Option 1 ID : **3767496529**
Option 2 ID : **3767496530**
Option 3 ID : **3767496531**
Option 4 ID : **3767496532**
Status : **Answered**
Chosen Option : **3**

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Q.129

The major adverse side effects of scan conversion are :-

A. Staircase appearance
B. Unequal brightness of slanted lines
C. Picket fence problem
D. Rasterization
E. Pre-filtering and Post-filtering

Choose the ***correct*** answer from the options given below:

1. A & B only

2. A, B & C only

3. B, C & D only

4. C, D & E only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491620**
Option 1 ID : **3767496309**
Option 2 ID : **3767496310**
Option 3 ID : **3767496311**
Option 4 ID : **3767496312**
Status : **Answered**
Chosen Option : **1**

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Q.130 Which of the following algorithms are based on the Breadth First Search (BFS) ?

A. Prim's algorithms
B. Kruskal algorithms
C. Dijkstra algorithms
D. Greedy algorithms
E. Dynamic Programming

Choose the ***correct*** answer from the options given below:

1. A & B only

2. A, C & D only

3. D & E only

4. A & C only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491653**
Option 1 ID : **3767496441**
Option 2 ID : **3767496442**
Option 3 ID : **3767496443**
Option 4 ID : **3767496444**
Status : **Answered**
Chosen Option : **2**

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Q.131

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Type - 0 grammar	I.	Linear Grammar
B.	Type - 1 grammar	II.	GNF
C.	Type - 2 grammar	III.	$x \rightarrow y, \lvert x\rvert < \lvert y\rvert; x, y \in \{V \cup T\}^*$
D.	Type - 3 grammar	IV.	Recursively Enumerable

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV

2. A-II, B-I, C-III, D-IV

3. A-III, B-II, C-IV, D-I

4. A-IV, B-III, C-I, D-II

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491662**
Option 1 ID : **3767496477**
Option 2 ID : **3767496478**
Option 3 ID : **3767496479**
Option 4 ID : **3767496480**
Status : **Answered**
Chosen Option : **1**

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Q.132

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Decision Tree	I.	Delta Learning Rule
B.	Supervised Learning	II.	Self Organizing Map
C.	Artificial Neural Network	III.	C4.5 Algorithm
D.	Instance base Learning	IV.	Non-linear Regression Algorithm

Choose the **correct** answer from the options given below:

1. A-I, B-II, C-III, D-IV

2. A-II, B-III, C-IV, D-I

3. A-III, B-IV, C-I, D-II

4. A-IV, B-I, C-II, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491682**
Option 1 ID : **3767496557**
Option 2 ID : **3767496558**
Option 3 ID : **3767496559**
Option 4 ID : **3767496560**
Status : **Answered**
Chosen Option : **3**

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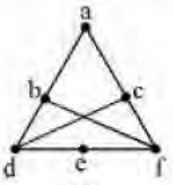
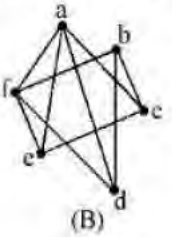
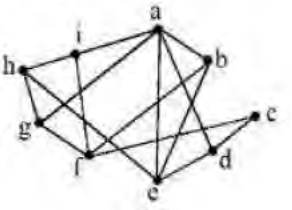
Q.133 Which of the following Graph is/are planer?



(A)



(B)



(C)

Choose the ***most appropriate*** answer from the options given below:

1. A and C only

2. B only

3. A only

4. A and B only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491593**
Option 1 ID : **3767496201**
Option 2 ID : **3767496202**
Option 3 ID : **3767496203**
Option 4 ID : **3767496204**
Status : **Answered**
Chosen Option : **4**

Q.134 Which table for a dynamic pipeline become more interesting when a nonlinear pattern is follows?

1. Reservation Table

2. Confusion Table

3. Inverted Table

4. Greedy Table

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491604**
Option 1 ID : **3767496245**
Option 2 ID : **3767496246**
Option 3 ID : **3767496247**
Option 4 ID : **3767496248**
Status : **Answered**
Chosen Option : **3**

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Q.135

Match the **LIST-I** with **LIST-II**

LIST-I (Software Risk)		LIST-II (Uses)	
A.	Predictable Risk	I.	Strategic Risk
B.	Business Risk	II.	Staffing and Organization
C.	Project Risk	III.	Implementation
D.	Past Project	IV.	Past Project Experience

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-I, D-II

2. A-III, B-II, C-I, D-IV

3. A-I, B-IV, C-III, D-II

4. A-IV, B-I, CII-, D-III

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491646**
Option 1 ID : **3767496413**
Option 2 ID : **3767496414**
Option 3 ID : **3767496415**
Option 4 ID : **3767496416**
Status : **Answered**
Chosen Option : **1**

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Q.136

Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Hadoop Distribution File System	I.	Trust
B.	Veracity	II.	Facebook
C.	Apache Pig	III.	Name-Node
D.	Apache Hive	IV.	Yahoo

Choose the **correct** answer from the options given below:

1. A-IV, B-III, C-I, D-II

2. A-III, B-I, C-II, D-IV

3. A-III, B-I, C-IV, D-II

4. A-II, B-III, C-I, D-IV

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491631**
Option 1 ID : **3767496353**
Option 2 ID : **3767496354**
Option 3 ID : **3767496355**
Option 4 ID : **3767496356**
Status : **Answered**
Chosen Option : **4**

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Q.137

y_{acc} is which of the following parsers?

1. Predictive Parser
2. SLR Parser
3. CLR Parser
4. LALR Parser

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491659**
Option 1 ID : **3767496465**
Option 2 ID : **3767496466**
Option 3 ID : **3767496467**
Option 4 ID : **3767496468**
Status : **Answered**
Chosen Option : **1**

Q.138

Which are often needed to evaluate the cache performance?

1. Hit Ratio
2. Latency
3. Cache Traces
4. Transfer Rate

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491605**
Option 1 ID : **3767496249**
Option 2 ID : **3767496250**
Option 3 ID : **3767496251**
Option 4 ID : **3767496252**
Status : **Answered**
Chosen Option : **1**

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Q.139

Consider the following statements

```
int x = 10, y = 15;
x = ((x = y) ? (y + x) : (y − x));
```

What will be the value of x after executing these statements?

1. 5

2. 25

3. 15

4. 30

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491615**
Option 1 ID : **3767496289**
Option 2 ID : **3767496290**
Option 3 ID : **3767496291**
Option 4 ID : **3767496292**
Status : **Answered**
Chosen Option : **1**

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Q.140 Which of the following are key features of Mobile Adhoc Networks (MANETs)

A. Self - Organizing and decentralized.
B. High Mobility of nodes.
C. Requires fixed Infrastructure for operation.
D. Network Topology is dynamic and constantly changing.
E. It requires a central controller to manage network traffic.

Choose the ***correct*** answer from the options given below:

1. A, B & E only

2. B, C, D & E only

3. A, B & D only

4. A, B & C only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491673**
Option 1 ID : **3767496521**
Option 2 ID : **3767496522**
Option 3 ID : **3767496523**
Option 4 ID : **3767496524**
Status : **Answered**
Chosen Option : **3**

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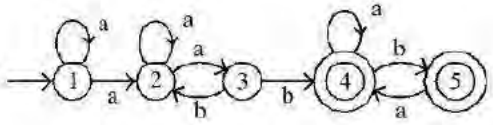
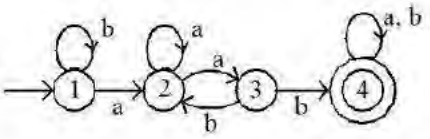
Comprehension:

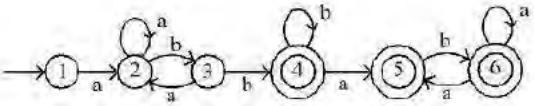
A machine is represented by states Q, input alphabet $\sum$, transition function δ. Initial state q_0 and final state F. The machine accepts all the strings over $\sum = \{a, b\}$, which start and ended with any combination of all alphabet and *abb* works /lies as substring in all the strings to be accepted.

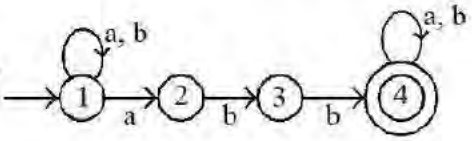
SubQuestion No : 141

Q.141 Which of the following represented the minimum state DFA for the above specified passage?

1. 

2. 

3. 

4. 

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491688**
Option 1 ID : **3767496577**
Option 2 ID : **3767496578**
Option 3 ID : **3767496579**
Option 4 ID : **3767496580**
Status : **Answered**
Chosen Option : **4**

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Comprehension:

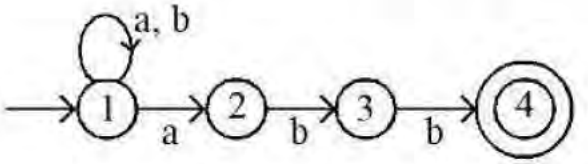
A machine is represented by states Q, input alphabet $\sum$, transition function δ. Initial state q_0 and final state F. The machine accepts all the strings over $\sum = \{a, b\}$, which start and ended with any combination of all alphabet and *abb* works /lies as substring in all the strings to be accepted.

SubQuestion No : 142

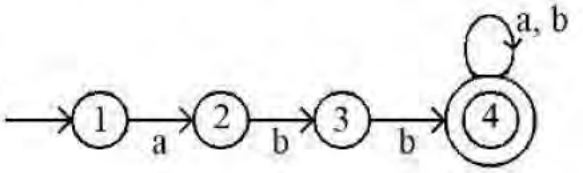
Q.142

For the above mentioned passage which of the following is correct?

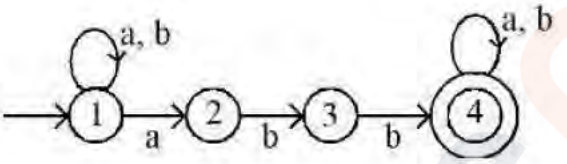
1.



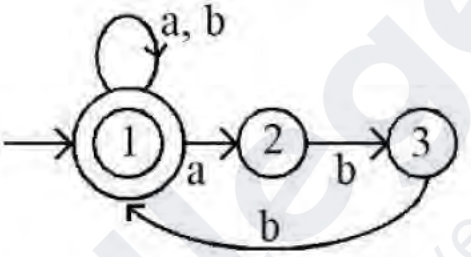
2.



3.



4.



Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491686**
Option 1 ID : **3767496569**
Option 2 ID : **3767496570**
Option 3 ID : **3767496571**
Option 4 ID : **3767496572**
Status : **Answered**
Chosen Option : **3**

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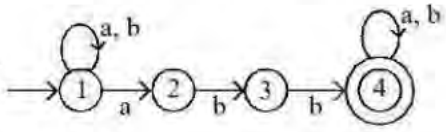
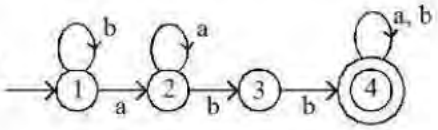
Comprehension:

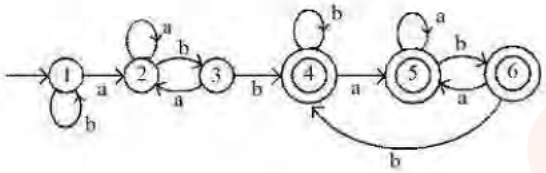
A machine is represented by states Q, input alphabet $\sum$, transition function δ. Initial state q_0 and final state F. The machine accepts all the strings over $\sum = \{a, b\}$, which start and ended with any combination of all alphabet and *abb* works /lies as substring in all the strings to be accepted.

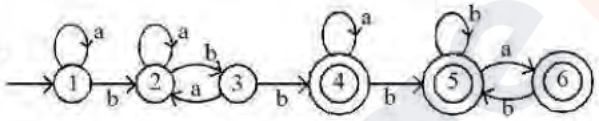
SubQuestion No : 143

Q.143 For the above specified passage, which of the following is DFA for the language represented/accepeted by machine?

1.


2.


3.


4.


Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491687**
Option 1 ID : **3767496573**
Option 2 ID : **3767496574**
Option 3 ID : **3767496575**
Option 4 ID : **3767496576**
Status : **Answered**
Chosen Option : **4**

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Comprehension:

A machine is represented by states Q, input alphabet $\sum$, transition function δ. Initial state q_0 and final state F. The machine accepts all the strings over $\sum = \{a, b\}$, which start and ended with any combination of all alphabet and *abb* works /lies as substring in all the strings to be accepted.

SubQuestion No : 144

Q.144 For the above specified passage, which of the following represents the regular expression?

1. $(a+b)^*aab$
2. $aba(a+b)^*$
3. $b(a+b)^*b(a+b)^*a(a+b)^*$
4. $(a+b)^*abb(a+b)^*$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491684**
Option 1 ID : **3767496561**
Option 2 ID : **3767496562**
Option 3 ID : **3767496563**
Option 4 ID : **3767496564**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

A machine is represented by states Q, input alphabet $\sum$, transition function δ. Initial state q_0 and final state F. The machine accepts all the strings over $\sum = \{a, b\}$, which start and ended with any combination of all alphabet and *abb* works /lies as substring in all the strings to be accepted.

SubQuestion No : 145

Q.145 For the above specified passage, which of the following represent the grammar for the language accepted the machine?

1. S→AabbB, A→aA|∈, B→bB|∈

2. S→abbA, A→aA|∈|bA

3. S→AabbA, A→aA|bA|∈

4. S→Aabb, A→aA|bA|∈

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491685**
Option 1 ID : **3767496565**
Option 2 ID : **3767496566**
Option 3 ID : **3767496567**
Option 4 ID : **3767496568**
Status : **Answered**
Chosen Option : **2**

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Comprehension:

Consider the following set of processes with the arrival time and length of CPU Burst time given in milli-seconds (ms):

Process	Arrival Time	Burst Time
P_1	0	5
P_2	2	3
P_3	2	2
P_4	5	3
P_5	6	1

SubQuestion No : 146

Q.146 What is the average waiting time for these processes with non-preemptive Shortest Job First (SJF) scheduling Algorithm?

1. 3.0 ms

2. 2.1 ms

3. 4.6 ms

4. 3.2 ms

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **3767491691**
Option 1 ID : **3767496585**
Option 2 ID : **3767496586**
Option 3 ID : **3767496587**
Option 4 ID : **3767496588**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Consider the following set of processes with the arrival time and length of CPU Burst time given in milli-seconds (ms):

Process	Arrival Time	Burst Time
P_1	0	5
P_2	2	3
P_3	2	2
P_4	5	3
P_5	6	1

SubQuestion No : 147

Q.147 Calculate the average response time for these processes with nonpreemptive priority Scheduling algorithm? Priority of the process are as follows and consider that all the processes came at zero (0) time. (Note low numbers represent high priority).

Process	Burst Time	Priority
P_1	5	3
P_2	3	1
P_3	2	5
P_4	3	4
P_5	1	2

1. 5.6 ms
2. 5.2 ms
3. 4.7 ms
4. 3.8 ms

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491693**
Option 1 ID : **3767496593**
Option 2 ID : **3767496594**
Option 3 ID : **3767496595**
Option 4 ID : **3767496596**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Consider the following set of processes with the arrival time and length of CPU Burst time given in milli-seconds (ms):

Process	Arrival Time	Burst Time
P_1	0	5
P_2	2	3
P_3	2	2
P_4	5	3
P_5	6	1

SubQuestion No : 148

Q.148 Find the average weighted turnaround time for these process using Highest Response Ratio Next (HRN) Algorithm?

1. 3.2 ms
2. 2.834 ms
3. 1.632 ms
4. 6.721 ms

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491692**
Option 1 ID : **3767496589**
Option 2 ID : **3767496590**
Option 3 ID : **3767496591**
Option 4 ID : **3767496592**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Consider the following set of processes with the arrival time and length of CPU Burst time given in milli-seconds (ms):

Process	Arrival Time	Burst Time
P_1	0	5
P_2	2	3
P_3	2	2
P_4	5	3
P_5	6	1

SubQuestion No : 149

Q.149 When we apply Shortest Job First (SJF) scheduling Policy/algorithm, Process (P_2) faces partial starvation and waits for the longer time to execute. Which one of the following algorithms addresses this problem?

1. Round Robin
2. Priority
3. Highest Response ratio Next
4. Least Completed next

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491694**
Option 1 ID : **3767496597**
Option 2 ID : **3767496598**
Option 3 ID : **3767496599**
Option 4 ID : **3767496600**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Consider the following set of processes with the arrival time and length of CPU Burst time given in milli-seconds (ms):

Process	Arrival Time	Burst Time
P_1	0	5
P_2	2	3
P_3	2	2
P_4	5	3
P_5	6	1

SubQuestion No : 150

Q.150 What is the average turnaround time for these Processes with First Come First Serve (FCFS) scheduling Algorithm?

1. 5.3 ms
2. 6.4 ms
3. 7.0 ms
4. 8.2 ms

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **3767491690**
Option 1 ID : **3767496581**
Option 2 ID : **3767496582**
Option 3 ID : **3767496583**
Option 4 ID : **3767496584**
Status : **Answered**
Chosen Option : **3**

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