

NTA UGC NET Jun 2025

Application No	
Candidate Name	
Roll No.	
Test Date	26/06/2025
Test Time	9:00 AM - 12:00 PM
Subject	87 Computer Science and Applications

Section : General Paper

Comprehension:

The following table shows the cumulative percentage of the total number of students appearing in the Hindi and Punjabi examination and the cumulative number of students appearing in the Hindi examination and scoring marks in five different categories, namely, 80 and above; 70 and above; 60 and above; 50 and above; and 40 and above. Based on the data in the table, answer the questions that follow.

Marks-wise distribution of students

Marks (Out of 100)	Cumulative percentage of the total number of students who appeared in Hindi and Punjabi	Cumulative number of students who appeared in Hindi
80 and above	15%	108
70 and above	35%	264
60 and above	65%	424
50 and above	90%	554
40 and above	100%	624

- Note :
- (1) Total number of students who attended the exam is 1200.
 - (2) No student failed in the examination.
 - (3) Each student appeared in only one exam, that is, either in Hindi or in Punjabi exam.

SubQuestion No : 1

Q.1

What is the average of the number of students who scored 50 or more than 50 marks but less than 60 marks in Punjabi and the number of students who scored 50 or more than 50 marks but less than 60 marks in Hindi ?

- (1) 180
- (2) 150
- (3) 200
- (4) 140

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894909

Option 1 ID : 42558919072

Option 2 ID : 42558919073

Option 3 ID : 42558919074

Option 4 ID : 42558919075

Status : Answered

Chosen Option : 2

Test Prime

**ALL EXAMS,
ONE SUBSCRIPTION**



70,000+
Mock Tests



**Personalised
Report Card**



**Unlimited
Re-Attempt**



600+
Exam Covered



**Previous Year
Papers**



**500%
Refund**



ATTEMPT FREE MOCK NOW

Comprehension:

The following table shows the cumulative percentage of the total number of students appearing in the Hindi and Punjabi examination and the cumulative number of students appearing in the Hindi examination and scoring marks in five different categories, namely, 80 and above; 70 and above; 60 and above; 50 and above; and 40 and above. Based on the data in the table, answer the questions that follow.

Marks-wise distribution of students

Marks (Out of 100)	Cumulative percentage of the total number of students who appeared in Hindi and Punjabi	Cumulative number of students who appeared in Hindi
80 and above	15%	108
70 and above	35%	264
60 and above	65%	424
50 and above	90%	554
40 and above	100%	624

- Note :
- (1) Total number of students who attended the exam is 1200.
 - (2) No student failed in the examination.
 - (3) Each student appeared in only one exam, that is, either in Hindi or in Punjabi exam.

SubQuestion No : 2

Q.2 What is the difference between the number of students who scored 70 or more than 70 marks but less than 80 marks in Punjabi and the number of students who scored 40 or more than 40 marks but less than 50 marks in Hindi ?

- (1) 20
- (2) 16
- (3) 14
- (4) 30

Options

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

Question Type : MCQ

Question ID : 4255894908

Option 1 ID : 42558919068

Option 2 ID : 42558919069

Option 3 ID : 42558919070

Option 4 ID : 42558919071

Status : Answered

Chosen Option : 3

Comprehension:

The following table shows the cumulative percentage of the total number of students appearing in the Hindi and Punjabi examination and the cumulative number of students appearing in the Hindi examination and scoring marks in five different categories, namely, 80 and above; 70 and above; 60 and above; 50 and above; and 40 and above. Based on the data in the table, answer the questions that follow.

Marks-wise distribution of students

Marks (Out of 100)	Cumulative percentage of the total number of students who appeared in Hindi and Punjabi	Cumulative number of students who appeared in Hindi
80 and above	15%	108
70 and above	35%	264
60 and above	65%	424
50 and above	90%	554
40 and above	100%	624

- Note :
- (1) Total number of students who attended the exam is 1200.
 - (2) No student failed in the examination.
 - (3) Each student appeared in only one exam, that is, either in Hindi or in Punjabi exam.

SubQuestion No : 3

Q.3 What is the ratio of the number of students who scored 50 or more than 50 marks but less than 60 marks in Hindi to the number of students who scored 40 or more than 40 marks but less than 50 marks in Punjabi ?

- (1) 12 : 11
- (2) 8 : 7
- (3) 3 : 1
- (4) 13 : 5

Options

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

Question Type : MCQ

Question ID : 4255894906

Option 1 ID : 42558919060

Option 2 ID : 42558919061

Option 3 ID : 42558919062

Option 4 ID : 42558919063

Status : Answered

Chosen Option : 4

Comprehension:

The following table shows the cumulative percentage of the total number of students appearing in the Hindi and Punjabi examination and the cumulative number of students appearing in the Hindi examination and scoring marks in five different categories, namely, 80 and above; 70 and above; 60 and above; 50 and above; and 40 and above. Based on the data in the table, answer the questions that follow.

Marks-wise distribution of students

Marks (Out of 100)	Cumulative percentage of the total number of students who appeared in Hindi and Punjabi	Cumulative number of students who appeared in Hindi
80 and above	15%	108
70 and above	35%	264
60 and above	65%	424
50 and above	90%	554
40 and above	100%	624

- Note :
- (1) Total number of students who attended the exam is 1200.
 - (2) No student failed in the examination.
 - (3) Each student appeared in only one exam, that is, either in Hindi or in Punjabi exam.

SubQuestion No : 4

Q.4 What is the sum of the number of students who scored 70 or more than 70 but less than 80 marks in Hindi and the number of students who scored 80 or more than 80 marks in Punjabi ?

- (1) 330
- (2) 228
- (3) 272
- (4) 284

Options

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

Question Type : MCQ

Question ID : 4255894905

Option 1 ID : 42558919056

Option 2 ID : 42558919057

Option 3 ID : 42558919058

Option 4 ID : 42558919059

Status : Answered

Chosen Option : 2

Comprehension:

The following table shows the cumulative percentage of the total number of students appearing in the Hindi and Punjabi examination and the cumulative number of students appearing in the Hindi examination and scoring marks in five different categories, namely, 80 and above; 70 and above; 60 and above; 50 and above; and 40 and above. Based on the data in the table, answer the questions that follow.

Marks-wise distribution of students

Marks (Out of 100)	Cumulative percentage of the total number of students who appeared in Hindi and Punjabi	Cumulative number of students who appeared in Hindi
80 and above	15%	108
70 and above	35%	264
60 and above	65%	424
50 and above	90%	554
40 and above	100%	624

- Note :
- (1) Total number of students who attended the exam is 1200.
 - (2) No student failed in the examination.
 - (3) Each student appeared in only one exam, that is, either in Hindi or in Punjabi exam.

SubQuestion No : 5

Q.5 The number of students who scored 80 and above marks in Hindi is _____ % less than the number of students who scored 60 or more than 60 marks but less than 70 marks in Punjabi.

- (1) 46
- (2) 54
- (3) 44
- (4) 52

Options

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

Question Type : MCQ

Question ID : 4255894907

Option 1 ID : 42558919064

Option 2 ID : 42558919065

Option 3 ID : 42558919066

Option 4 ID : 42558919067

Status : Answered

Chosen Option : 2

Q.6 Standard deviation (S) and coefficient of Variation (CV Expressed as a percentage) of different datasets are given in A-D, below. Compute the mean of each dataset and arrange in ascending order.

- A. $S = 4, CV = 40/9$
- B. $S = 5, CV = 6.25$
- C. $S = 14, CV = 70/3$
- D. $S = 16, CV = 160/7$

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

- (1) C, B, D, A
- (2) C, D, B, A
- (3) A, D, B, C
- (4) D, B, C, A

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **4255894917**

Option 1 ID : **42558919104**

Option 2 ID : **42558919105**

Option 3 ID : **42558919106**

Option 4 ID : **42558919107**

Status : **Answered**

Chosen Option : **2**

Q.7 Which of the following are the risks of plagiarism for the researcher who plagiarises ?

- A. Losing of the Inspiration
- B. Losing of the obtained titles
- C. Destruction of obtained solutions
- D. Destroying the public image

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

- (1) A and C Only
- (2) B and C Only
- (3) B and D Only
- (4) C and D Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **4255894918**

Option 1 ID : **42558919108**

Option 2 ID : **42558919109**

Option 3 ID : **42558919110**

Option 4 ID : **42558919111**

Status : **Answered**

Chosen Option : **1**

Q.8 The role of a teacher in the simulation model is that of _____.

- (1) Explaining
- (2) Designing
- (3) Describing
- (4) Chosing activity

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

Question Type : **MCQ**
 Question ID : **4255894910**
 Option 1 ID : **42558919076**
 Option 2 ID : **42558919077**
 Option 3 ID : **42558919078**
 Option 4 ID : **42558919079**
 Status : **Answered**
 Chosen Option : **3**

Q.9 Match List - I with List - II :

- List - I**
(Name of the institutions)
- A. NIEPA
 - B. RUSA
 - C. QAA
 - D. HEFA

- List - II**
(Function)
- I. Ensuring Quality
 - II. Providing loans to higher education institutions
 - III. Infrastructure development for upgrading the existing colleges into model colleges
 - IV. Promoting Research in planning and management

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-I, B-IV, C-III, D-II
- (4) A-IV, B-III, C-I, D-II

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

Question Type : **MCQ**
 Question ID : **4255894949**
 Option 1 ID : **42558919232**
 Option 2 ID : **42558919233**
 Option 3 ID : **42558919234**
 Option 4 ID : **42558919235**
 Status : **Answered**
 Chosen Option : **4**

Q.10

Learning for all implies :

- (A) Inclusive Education
- (B) Equitable Education
- (C) Inclusive and Equitable Education
- (D) Quality Education
- (E) Categorized based Education

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

- (1) A, B and D only
- (2) A and E only
- (3) C only
- (4) D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894913**

Option 1 ID : **42558919088**

Option 2 ID : **42558919089**

Option 3 ID : **42558919090**

Option 4 ID : **42558919091**

Status : **Answered**

Chosen Option : **1**

Q.11 Match List - I with List - II :

List - I
(Learning style)

- A. Convergent
- B. Divergent
- C. Assimilation
- D. Accommodative

List - II
(Strengths)

- I. Creating theoretical model
- II. Practical Application of ideas
- III. Carrying out plans and tasks that involves students in new experiences
- IV. Imaginative ability and generation of ideas

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-II, B-IV, C-I, D-III
- (4) A-IV, B-I, C-III, D-II

Options

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

Question Type : **MCQ**

Question ID : **4255894914**

Option 1 ID : **42558919092**

Option 2 ID : **42558919093**

Option 3 ID : **42558919094**

Option 4 ID : **42558919095**

Status : **Answered**

Chosen Option : **1**

Q.12 Which of the following is correct sequence of increasing access time of storage/memory devices ?

- A. Magnetic tape
- B. RAM
- C. Cache memory
- D. Hard disk
- E. Registers

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

- (1) A, B, C, D, E
- (2) B, E, C, A, D
- (3) E, C, B, D, A
- (4) C, E, B, A, D

Options

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

Question Type : **MCQ**

Question ID : **4255894937**

Option 1 ID : **42558919184**

Option 2 ID : **42558919185**

Option 3 ID : **42558919186**

Option 4 ID : **42558919187**

Status : **Answered**

Chosen Option : **3**

Q.13

Who directed the first film made in India ?

- (1) Satyajit Ray
- (2) Dada Saheb Phalke
- (3) Prithvi Raj Kapoor
- (4) Ardeshar Irani

Options

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

Question Type : MCQ

Question ID : 4255894921

Option 1 ID : 42558919120

Option 2 ID : 42558919121

Option 3 ID : 42558919122

Option 4 ID : 42558919123

Status : Answered

Chosen Option : 1

Q.14

As per National Education Policy 1986, the major functions of the National Apex Body are :

- A. To allocate resources
- B. To evaluate the examination system
- C. To advise government on policy
- D. To encourage inter-disciplinarily and promotion of interfaces among different areas.
- E. To conduct research in higher education

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

- (1) A, C, E Only
- (2) B, D and E Only
- (3) C, D and E Only
- (4) A, C and D Only

Options

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

Question Type : MCQ

Question ID : 4255894948

Option 1 ID : 42558919228

Option 2 ID : 42558919229

Option 3 ID : 42558919230

Option 4 ID : 42558919231

Status : Answered

Chosen Option : 1

Q.15

Arrange the following events in the **correct** chronological sequence.

- A. Establishment of the University of Madras
- B. Introduction of the Indian Universities Act
- C. Establishment of UGC
- D. First National Education Policy of India

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

- (1) A, B, C, D
- (2) A, D, C, B
- (3) B, C, A, D
- (4) C, B, A, D

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894947**

Option 1 ID : **42558919224**

Option 2 ID : **42558919225**

Option 3 ID : **42558919226**

Option 4 ID : **42558919227**

Status : **Answered**

Chosen Option : **2**

Q.16

According to the classical Indian school of logic, which of the following instruments of knowledge is defined as the knowledge of the relation between a word and its denotation and is produced by the knowledge of resemblance or similarity ?

- (1) Pratyakṣa (perception)
- (2) Anumāna (inference)
- (3) Upamāna (comparison)
- (4) Śabda (verbal testimony)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894934**

Option 1 ID : **42558919172**

Option 2 ID : **42558919173**

Option 3 ID : **42558919174**

Option 4 ID : **42558919175**

Status : **Answered**

Chosen Option : **1**

Q.17 Increasing the ratio of fissile Uranium (U-235) in natural uranium is known as :

- (1) Enhancement
- (2) Concentration
- (3) Accumulation
- (4) Enrichment

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894942

Option 1 ID : 42558919204

Option 2 ID : 42558919205

Option 3 ID : 42558919206

Option 4 ID : 42558919207

Status : Answered

Chosen Option : 2

Q.18 Which of the following are true about coliform bacteria ?

- A. They are used to test water contamination.
- B. Coliform bacteria are harmless and cause no disease.
- C. They are found naturally in human intestinal tract.
- D. Their presence in water is an indication of fecal contamination.

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

- (1) A and D Only
- (2) B and C Only
- (3) A, C and D Only
- (4) A, B, C and D

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894940

Option 1 ID : 42558919196

Option 2 ID : 42558919197

Option 3 ID : 42558919198

Option 4 ID : 42558919199

Status : Answered

Chosen Option : 2

Q.19 When a producer allows 36% commission on the retail price of his product, he earns a profit of 8.8%. What would be his profit if the commission is reduced by 24% ?

- (1) 36.6%
- (2) 49.6%
- (3) 59.6%
- (4) 45.6%

Options

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

Question Type : **MCQ**

Question ID : **4255894928**

Option 1 ID : **42558919148**

Option 2 ID : **42558919149**

Option 3 ID : **42558919150**

Option 4 ID : **42558919151**

Status : **Answered**

Chosen Option : **1**

Q.20 With reference to cyber attacks, which of the following statements are correct ?

- A. Malware is a malicious software designed to cause damage to a single computer, server or computer network.
- B. Types of malware include computer viruses, worms, trojan horses, ransomware and spyware.
- C. Pegasus is a malicious software classified as Ransomware.
- D. India is not a signatory to the Budapest convention on cybercrime.

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

- (1) A, B and C Only
- (2) B, C and D Only
- (3) A, B, C and D
- (4) A, B and D Only

Options

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

Question Type : **MCQ**

Question ID : **4255894938**

Option 1 ID : **42558919188**

Option 2 ID : **42558919189**

Option 3 ID : **42558919190**

Option 4 ID : **42558919191**

Status : **Answered**

Chosen Option : **1**

Q.21 Which international organization co-ordinates the education for all programme at the global level ?

- (1) UNDP
- (2) UNESCO
- (3) IMF
- (4) UNEP

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894946**

Option 1 ID : **42558919220**

Option 2 ID : **42558919221**

Option 3 ID : **42558919222**

Option 4 ID : **42558919223**

Status : **Answered**

Chosen Option : **4**

Q.22 In an ancient period, the Diksha Guru performed his duty as :

- (1) Guru of secular subjects
- (2) Spiritual guide for both girls and boys
- (3) Spiritual guide of boys
- (4) Tutor

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894945**

Option 1 ID : **42558919216**

Option 2 ID : **42558919217**

Option 3 ID : **42558919218**

Option 4 ID : **42558919219**

Status : **Answered**

Chosen Option : **2**

Q.23

Find the number that can replace question mark (?) in the series given below.

7, 12, 32, 122, ?, 3602, 25202

(1) 602

(2) 610

(3) 702

(4) 622

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894925

Option 1 ID : 42558919136

Option 2 ID : 42558919137

Option 3 ID : 42558919138

Option 4 ID : 42558919139

Status : Answered

Chosen Option : 1

Q.24

Arrange the following in order of increasing extension.

A. Social Science

B. Political Science

C. Sciences

D. Politics of International Relations

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

(1) C, A, B, D

(2) A, C, B, D

(3) B, D, A, C

(4) D, B, A, C

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894933

Option 1 ID : 42558919168

Option 2 ID : 42558919169

Option 3 ID : 42558919170

Option 4 ID : 42558919171

Status : Answered

Chosen Option : 1

Q.25 What is Explanatory research ?

- (1) It studies subject about which either no information or the limited information is available.
- (2) It describes social situations, social events, social systems, social structures etc. The researcher observes/studies and then describes what did he find ?
- (3) It explains the causes of social phenomena. Describing the magnitude and nature of crimes committed by females in India is one aspect of female crime but why do they commit crime is its explanatory aspect.
- (4) It is based on common sense knowledge based on the accumulated experiences and beliefs of the people.

Options

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

Question Type : **MCQ**

Question ID : **4255894916**

Option 1 ID : **42558919100**

Option 2 ID : **42558919101**

Option 3 ID : **42558919102**

Option 4 ID : **42558919103**

Status : **Answered**

Chosen Option : **2**

Q.26 Match List - I with List - II :

List - I

(Operating system)

- A. UNIX
- B. MS-DOS
- C. Android OS
- D. Utility programs

List - II

(Task)

- I. Assist users in system maintenance task
- II. Mobile device
- III. Single user operating system
- IV. Multi user operating system

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

- (1) A-III, B-IV, C-I, D-II
- (2) A-I, B-II, C-IV, D-III
- (3) A-IV, B-III, C-II, D-I
- (4) A-III, B-I, C-II, D-IV

Options

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

Question Type : **MCQ**

Question ID : **4255894939**

Option 1 ID : **42558919192**

Option 2 ID : **42558919193**

Option 3 ID : **42558919194**

Option 4 ID : **42558919195**

Status : **Answered**

Chosen Option : **3**

Q.27

Match List - I with List - II :

List - I (Meaning)	List - II (Terms)
A. Who	I. Receiver
B. Says what	II. Communicator
C. In which channel	III. Message
D. To whom	IV. Medium

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

- (1) A-III, B-II, C-I, D-IV
- (2) A-I, B-IV, C-III, D-II
- (3) A-II, B-III, C-IV, D-I
- (4) A-IV, B-II, C-I, D-III

Options

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

Question Type : MCQ

Question ID : 4255894924

Option 1 ID : 42558919132

Option 2 ID : 42558919133

Option 3 ID : 42558919134

Option 4 ID : 42558919135

Status : Answered

Chosen Option : 3

Q.28 Why is the concentration of CO₂ is more in the Northern Hemisphere than the Southern Hemisphere ?

- A. Land mass is more in the Northern Hemisphere.
- B. Ocean body is more in the Southern Hemisphere.
- C. Fossil fuel is burnt more in the Northern Hemisphere.
- D. Northern Hemisphere is colder than the Southern Hemisphere.

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

- (1) A and C Only
- (2) B, C and D Only
- (3) A, B and C Only
- (4) B and D Only

Options

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

Question Type : **MCQ**

Question ID : **4255894941**

Option 1 ID : **42558919200**

Option 2 ID : **42558919201**

Option 3 ID : **42558919202**

Option 4 ID : **42558919203**

Status : **Answered**

Chosen Option : **2**

Q.29 The CBCS (Choice Based Credit System) in higher education promotes :

- (1) Rigid Curriculum structure
- (2) Flexibility in course selection
- (3) Limited student choices
- (4) Only theoretical learning

Options

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

Question Type : **MCQ**

Question ID : **4255894911**

Option 1 ID : **42558919080**

Option 2 ID : **42558919081**

Option 3 ID : **42558919082**

Option 4 ID : **42558919083**

Status : **Answered**

Chosen Option : **2**

Q.30

Which of the following statements contradict each other ?

- A. All ducks are birds.
- B. Some ducks are birds.
- C. Some ducks are not birds.
- D. No ducks are birds.

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

- (1) A and D Only
- (2) B and C Only
- (3) B and D Only
- (4) C and D Only

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

Question Type : MCQ

Question ID : 4255894930

Option 1 ID : 42558919156

Option 2 ID : 42558919157

Option 3 ID : 42558919158

Option 4 ID : 42558919159

Status : Answered

Chosen Option : 2

Q.31

Which of the following is an example of IEEE 802.3 ?

- (1) LAN
- (2) MAN
- (3) WAN
- (4) PAN

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

Question Type : MCQ

Question ID : 4255894935

Option 1 ID : 42558919176

Option 2 ID : 42558919177

Option 3 ID : 42558919178

Option 4 ID : 42558919179

Status : Answered

Chosen Option : 1

Q.32 A sum was put at simple interest at a certain rate for 3 years, Had it been put at 1% higher rate, it would have fetched ₹5100 more. Find the sum.

- (1) ₹ 170,000
- (2) ₹ 150,000
- (3) ₹ 175,000
- (4) ₹ 200,000

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894929

Option 1 ID : 42558919152

Option 2 ID : 42558919153

Option 3 ID : 42558919154

Option 4 ID : 42558919155

Status : Answered

Chosen Option : 3

Q.33 Which of the following technologies is used in second generation of computer ?

- (1) Vacuum tubes
- (2) Transistors
- (3) Integrated Circuits
- (4) VLSI

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894936

Option 1 ID : 42558919180

Option 2 ID : 42558919181

Option 3 ID : 42558919182

Option 4 ID : 42558919183

Status : Answered

Chosen Option : 1

Q.34 What is Exploratory Research ?

- (1) It describes social situations, social events, social systems, social structures etc. The researcher observes/studies and then describes what did he find ?
- (2) It studies subject about which either no information or the limited information is available.
- (3) It explains the causes of social phenomena. Describing the magnitude and nature of crimes committed by females in India is one aspect of female crime but why do they commit crime is its explanatory aspect.
- (4) It is based on common sense knowledge based on the accumulated experiences and beliefs of the people.

- Options**
1. 1
 2. 2
 3. 3
 4. 4

Question Type : **MCQ**

Question ID : **4255894915**

Option 1 ID : **42558919096**

Option 2 ID : **42558919097**

Option 3 ID : **42558919098**

Option 4 ID : **42558919099**

Status : **Answered**

Chosen Option : **2**

Q.35 Which of the following statement(s) is/are wrong ?

- A. A man runs at a speed of 20 km/hr and covers a distance of 400 m. The time taken by the man to cover 400 m is 8 minutes.
- B. A person covers a certain distance at x km/hr and an equal distance at y km/hr. The average speed during the whole journey is $\frac{2xy}{x+y}$ km/hr.
- C. A Cyclist covers a distance of 750 m in $2\frac{1}{2}$ minutes. The speed of the cyclist is 18 km/hr.
- D. A speed of x km/hr is equal to $\frac{5x}{18}$ m/sec

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

- (1) A Only
- (2) A and B Only
- (3) A and C Only
- (4) B, C and D Only

- Options**
1. 1
 2. 2
 3. 3
 4. 4

Question Type : **MCQ**

Question ID : **4255894927**

Option 1 ID : **42558919144**

Option 2 ID : **42558919145**

Option 3 ID : **42558919146**

Option 4 ID : **42558919147**

Status : **Answered**

Chosen Option : **2**

Q.36 Match List - I with List - II :

List - I

List - II

[Population mean(μ) and $\frac{1}{N} \sum x_i^2$]

[Population standard deviation (σ)]

A. $\mu = 9, \frac{1}{N} \sum x_i^2 = 117$

I. 10

B. $\mu = 10, \frac{1}{N} \sum x_i^2 = 200$

II. 4

C. $\mu = 11, \frac{1}{N} \sum x_i^2 = 202$

III. 6

D. $\mu = 12, \frac{1}{N} \sum x_i^2 = 160$

IV. 9

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

- (1) A-III, B-IV, C-I, D-II
- (2) A-II, B-I, C-IV, D-III
- (3) A-III, B-I, C-IV, D-II
- (4) A-I, B-IV, C-II, D-III

Options

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

Question Type : MCQ

Question ID : 4255894919

Option 1 ID : 42558919112

Option 2 ID : 42558919113

Option 3 ID : 42558919114

Option 4 ID : 42558919115

Status : Answered

Chosen Option : 3

Q.37

In a certain code language :

'NOIDA' is written as : 1, 4, 9, 15, 14

'INDIA' is written as : 1, 9, 4, 14, 9

How 'HELLO' will be written in this language ?

- (1) 15, 12, 12, 5, 8
- (2) 5, 12, 12, 15, 8
- (3) 8, 5, 12, 12, 15
- (4) 12, 5, 12, 8, 15

Options

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

Question Type : MCQ

Question ID : 4255894926

Option 1 ID : 42558919140

Option 2 ID : 42558919141

Option 3 ID : 42558919142

Option 4 ID : 42558919143

Status : Answered

Chosen Option : 1

Q.38

What is the correct sequence, from initial to final, of surface waste water treatment ?

- A. Disinfection
- B. Sedimentation
- C. Filtration
- D. Screening

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

- (1) A, B, C, D
- (2) A, B, D, C
- (3) D, B, A, C
- (4) D, B, C, A

Options

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

Question Type : MCQ

Question ID : 4255894943

Option 1 ID : 42558919208

Option 2 ID : 42558919209

Option 3 ID : 42558919210

Option 4 ID : 42558919211

Status : Answered

Chosen Option : 4

Q.39

Who directed the first talkie feature film made in India ?

- (1) Ardeshar Irani
- (2) Ritwik Ghatak
- (3) Dada Saheb Phalke
- (4) Bimal Roy

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

Question Type : MCQ

Question ID : 4255894920

Option 1 ID : 42558919116

Option 2 ID : 42558919117

Option 3 ID : 42558919118

Option 4 ID : 42558919119

Status : Answered

Chosen Option : 3

Q.40

"This is the richest fraternity on the campus; therefore Mr. X who is a member of this fraternity must be one of the richest young man on the campus." Which fallacy is involved in this argument ?

- (1) Fallacy of division
- (2) Fallacy of irrelevant conclusion
- (3) Red Herring
- (4) Slippery slope

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

Question Type : MCQ

Question ID : 4255894932

Option 1 ID : 42558919164

Option 2 ID : 42558919165

Option 3 ID : 42558919166

Option 4 ID : 42558919167

Status : Answered

Chosen Option : 4

Q.41 What is the correct chronological order of the following television programmes released on Doordarshan in India (from earliest to latest)?

- A. Mahabharatha
- B. Chandrakanta
- C. Hum Log
- D. Ramayana
- E. Buniyad

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

- (1) A, B, C, D, E
- (2) C, E, D, A, B
- (3) B, C, A, D, E
- (4) B, A, D, E, C

Options

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

Question Type : **MCQ**

Question ID : **4255894922**

Option 1 ID : **42558919124**

Option 2 ID : **42558919125**

Option 3 ID : **42558919126**

Option 4 ID : **42558919127**

Status : **Answered**

Chosen Option : **4**

Q.42 Which of the following are differences between Modified Mercalli Scale (MMS) and Richter Scale (RS) ?

- A. RS measures the energy released while MMS measures both energy and devastation
- B. RS uses linear scale while MMS uses logarithmic scale
- C. Value of RS is constant in an earthquake while MMS varies depending upon distance
- D. Levels in RS is more than MMS

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

- (1) A and B Only
- (2) B and C Only
- (3) C and D Only
- (4) A and C Only

Options

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

Question Type : **MCQ**

Question ID : **4255894944**

Option 1 ID : **42558919212**

Option 2 ID : **42558919213**

Option 3 ID : **42558919214**

Option 4 ID : **42558919215**

Status : **Answered**

Chosen Option : **3**

Q.43 If the statement "No birds are animals" is given as false, which of the following statements can be inferred to be true ?

- A. Some animals are not birds.
- B. Some birds are not animals.
- C. Some animals are birds.
- D. Some birds are animals.

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

- (1) A and B Only
- (2) C and D Only
- (3) B Only
- (4) A, B, C and D

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894931**

Option 1 ID : **42558919160**

Option 2 ID : **42558919161**

Option 3 ID : **42558919162**

Option 4 ID : **42558919163**

Status : **Answered**

Chosen Option : **2**

Q.44 What among the following films are directed by Satyajit Ray ?

- A. Madhumati
- B. Apur Sansar
- C. Sujata
- D. Aparajito
- E. Pather Panchali

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

- (1) B, D and E Only
- (2) A and C Only
- (3) A, B, C and D Only
- (4) A, B and C Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894923**

Option 1 ID : **42558919128**

Option 2 ID : **42558919129**

Option 3 ID : **42558919130**

Option 4 ID : **42558919131**

Status : **Answered**

Chosen Option : **3**

Q.45 Arrange the problem-solving strategy.

- (A) Generate many possible solutions
- (B) Determine how to implement the solution and evaluate the success of the solution
- (C) Make a decision
- (D) Evaluate each solution
- (E) Define the problem

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

- (1) B, E, A, D, C
- (2) E, A, D, C, B
- (3) A, B, C, D, E
- (4) C, A, B, E, D

Options

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

Question Type : **MCQ**

Question ID : **4255894912**

Option 1 ID : **42558919084**

Option 2 ID : **42558919085**

Option 3 ID : **42558919086**

Option 4 ID : **42558919087**

Status : **Answered**

Chosen Option : **2**

Comprehension:

Read the following passage carefully and answer the questions .

Forced by circumstances and in search of success and status, educated young men and women settle far away from their parents. Some go abroad. The very education that the parents manage to give to their children turns against them in the end. Their children go away in search of green pastures leaving them alone. International community as well as our government is aware of their problems. The UNO proclaimed the year 1999 as 'International Year for the Aged'. In our own country too the year 2000 was proclaimed 'The Year for the Aged'.

Article 41 of our constitution clearly makes it incumbent on the state to look after the aged. There is a social welfare ministry responsible for the welfare of the aged. Laws are made from time-to-time to protect the rights of senior citizens. For example under law parents cannot be evicted from a house without due process of law under section 105 of the Criminal Procedure Code. A magistrate can order a person to maintain his/her old parents under the Maintenance of Parents Act. The Hindu Adoption and Maintenance act says that the aged parents can demand for maintenance from their children. The Domestic Violence Act also provides parents with the rights to seek relief from any kind of abuse.

SubQuestion No : 46

Q.46 Which of the following Act/Section does give parents rights to seek relief from any kind of abuse ?

- (1) Hindu Adoption and maintenance Act
- (2) Section 105 of CPC
- (3) The Domestic Violence Act
- (4) Section 98 of CPC

Options

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

Question Type : MCQ

Question ID : 4255894955

Option 1 ID : 42558919252

Option 2 ID : 42558919253

Option 3 ID : 42558919254

Option 4 ID : 42558919255

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage carefully and answer the questions .

Forced by circumstances and in search of success and status, educated young men and women settle far away from their parents. Some go abroad. The very education that the parents manage to give to their children turns against them in the end. Their children go away in search of green pastures leaving them alone. International community as well as our government is aware of their problems. The UNO proclaimed the year 1999 as 'International Year for the Aged'. In our own country too the year 2000 was proclaimed 'The Year for the Aged'.

Article 41 of our constitution clearly makes it incumbent on the state to look after the aged. There is a social welfare ministry responsible for the welfare of the aged. Laws are made from time-to-time to protect the rights of senior citizens. For example under law parents cannot be evicted from a house without due process of law under section 105 of the Criminal Procedure Code. A magistrate can order a person to maintain his/her old parents under the Maintenance of Parents Act. The Hindu Adoption and Maintenance act says that the aged parents can demand for maintenance from their children. The Domestic Violence Act also provides parents with the rights to seek relief from any kind of abuse.

SubQuestion No : 47

Q.47 Who is empowered to give order to the concerned for the maintenance of their parents ?

- (1) A retired judge
- (2) The judge of the High-Court
- (3) Local Sarpanch
- (4) A magistrate

Options

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

Question Type : MCQ

Question ID : 4255894954

Option 1 ID : 42558919248

Option 2 ID : 42558919249

Option 3 ID : 42558919250

Option 4 ID : 42558919251

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage carefully and answer the questions .

Forced by circumstances and in search of success and status, educated young men and women settle far away from their parents. Some go abroad. The very education that the parents manage to give to their children turns against them in the end. Their children go away in search of green pastures leaving them alone. International community as well as our government is aware of their problems. The UNO proclaimed the year 1999 as 'International Year for the Aged'. In our own country too the year 2000 was proclaimed 'The Year for the Aged'.

Article 41 of our constitution clearly makes it incumbent on the state to look after the aged. There is a social welfare ministry responsible for the welfare of the aged. Laws are made from time-to-time to protect the rights of senior citizens. For example under law parents cannot be evicted from a house without due process of law under section 105 of the Criminal Procedure Code. A magistrate can order a person to maintain his/her old parents under the Maintenance of Parents Act. The Hindu Adoption and Maintenance act says that the aged parents can demand for maintenance from their children. The Domestic Violence Act also provides parents with the rights to seek relief from any kind of abuse.

SubQuestion No : 48**Q.48**

The year 1999 was proclaimed as :

- (1) National year for the aged
- (2) Universal year for the aged
- (3) International year for the aged
- (4) SAARC year for the aged

Options

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

Question Type : MCQ**Question ID : 4255894952****Option 1 ID : 42558919240****Option 2 ID : 42558919241****Option 3 ID : 42558919242****Option 4 ID : 42558919243****Status : Answered****Chosen Option : 3**

Comprehension:

Read the following passage carefully and answer the questions .

Forced by circumstances and in search of success and status, educated young men and women settle far away from their parents. Some go abroad. The very education that the parents manage to give to their children turns against them in the end. Their children go away in search of green pastures leaving them alone. International community as well as our government is aware of their problems. The UNO proclaimed the year 1999 as 'International Year for the Aged'. In our own country too the year 2000 was proclaimed 'The Year for the Aged'.

Article 41 of our constitution clearly makes it incumbent on the state to look after the aged. There is a social welfare ministry responsible for the welfare of the aged. Laws are made from time-to-time to protect the rights of senior citizens. For example under law parents cannot be evicted from a house without due process of law under section 105 of the Criminal Procedure Code. A magistrate can order a person to maintain his/her old parents under the Maintenance of Parents Act. The Hindu Adoption and Maintenance act says that the aged parents can demand for maintenance from their children. The Domestic Violence Act also provides parents with the rights to seek relief from any kind of abuse.

SubQuestion No : 49

Q.49 Under section 105 of the criminal procedure code, parents cannot be evicted from a house :

- (1) Without due process of law
- (2) In any situation
- (3) Without submitting their will
- (4) Unless their property is transferred to their legal heir

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

Question Type : MCQ

Question ID : 4255894953

Option 1 ID : 42558919244

Option 2 ID : 42558919245

Option 3 ID : 42558919246

Option 4 ID : 42558919247

Status : Answered

Chosen Option : 1

Comprehension:

Read the following passage carefully and answer the questions .

Forced by circumstances and in search of success and status, educated young men and women settle far away from their parents. Some go abroad. The very education that the parents manage to give to their children turns against them in the end. Their children go away in search of green pastures leaving them alone. International community as well as our government is aware of their problems. The UNO proclaimed the year 1999 as 'International Year for the Aged'. In our own country too the year 2000 was proclaimed 'The Year for the Aged'.

Article 41 of our constitution clearly makes it incumbent on the state to look after the aged. There is a social welfare ministry responsible for the welfare of the aged. Laws are made from time-to-time to protect the rights of senior citizens. For example under law parents cannot be evicted from a house without due process of law under section 105 of the Criminal Procedure Code. A magistrate can order a person to maintain his/her old parents under the Maintenance of Parents Act. The Hindu Adoption and Maintenance act says that the aged parents can demand for maintenance from their children. The Domestic Violence Act also provides parents with the rights to seek relief from any kind of abuse.

SubQuestion No : 50

Q.50

According to passage, who usually leaves their parents in lurch ?

- (1) Disobedient wards
- (2) Frustrated youth
- (3) Career seeker children settled in distant places
- (4) The ones who have job insecurity

Options

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

Question Type : MCQ

Question ID : 4255894951

Option 1 ID : 42558919236

Option 2 ID : 42558919237

Option 3 ID : 42558919238

Option 4 ID : 42558919239

Status : Answered

Chosen Option : 3

Q.51 Match List I with List II

List I	List II
A. Equivalence Partitioning	I. Measures independent paths in code
B. Boundary Value Analysis	II. Divides input into valid/invalid sets
C. Cyclomatic Complexity	III. Focuses on limits of input ranges
D. Decision Table Testing	IV. In which a number of combinations of actions are tested under varying sets of conditions.

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895039

Option 1 ID : 42558919588

Option 2 ID : 42558919589

Option 3 ID : 42558919590

Option 4 ID : 42558919591

Status : Answered

Chosen Option : 1

Q.52

Which of the following are controlled-access protocols

- A. Reservation
- B. Polling
- C. TDMA
- D. Token Passing
- E. CSMA/CA

Choose the correct answer from the options given below:

- 1. A and D Only
- 2. A, B 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 : 4255895023

Option 1 ID : 42558919524

Option 2 ID : 42558919525

Option 3 ID : 42558919526

Option 4 ID : 42558919527

Status : Answered

Chosen Option : 4

Q.53 What would be the equivalent pointer expression for referring the array element $ar[m][n][o]$

- (1) $* (* (* (ar) + m + n) + o)$
- (2) $(* (* (* ar + m) + n) + o)$
- (3) $(* (* (ar + m) + n) + o)$
- (4) $* (* (* (ar + m) + n) + o)$

Options

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

Question Type : **MCQ**

Question ID : **4255894968**

Option 1 ID : **42558919304**

Option 2 ID : **42558919305**

Option 3 ID : **42558919306**

Option 4 ID : **42558919307**

Status : **Answered**

Chosen Option : 1

Q.54 Which of the followings is not a valid property over two fuzzy relations \tilde{R} and \tilde{S} which must be obeyed for performing λ -cut defuzzifications?

1. $(\tilde{R} \cup \tilde{S})_\lambda = \tilde{R}_\lambda \cup \tilde{S}_\lambda$
2. $(\tilde{R} \cap \tilde{S})_\lambda = \tilde{R}_\lambda \cap \tilde{S}_\lambda$
3. $(\tilde{\bar{R}})_\lambda \neq \bar{R}_\lambda$ *except when $\lambda = 1$*
4. For any $\lambda \leq \beta$, where $0 \leq \beta \leq 1$, it is true that $R_\beta \subseteq R_\lambda$

Options

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

Question Type : **MCQ**

Question ID : **4255894992**

Option 1 ID : **42558919400**

Option 2 ID : **42558919401**

Option 3 ID : **42558919402**

Option 4 ID : **42558919403**

Status : **Answered**

Chosen Option : 2

Q.55

Which of the followings belongs to MaCall's quality factors?

- A. Maintainability
- B. Usability
- C. Integrity
- D. Functionality

Choose the correct answer from the options given below:

- 1. A and D Only
- 2. A, B and D Only
- 3. C and D Only
- 4. A, B and C Only

Options

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

Question Type : MCQ

Question ID : 4255895020

Option 1 ID : 42558919512

Option 2 ID : 42558919513

Option 3 ID : 42558919514

Option 4 ID : 42558919515

Status : Answered

Chosen Option : 1

Q.56

Match List I with List II

List I	List II
A. Count to infinity problem	I. Mobile Adhoc Networks
B. IEEE 802.16	II. Distance vector routing
C. IEEE 802.15	III. WiMAX
D. AODV protocol	IV. Bluetooth

Choose the correct answer from the options given below:

1. A-II, B-III, C-I, D-IV
2. A-II, B-III, C-IV, D-I
3. A-II, B-IV, 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 : 4255895042

Option 1 ID : 42558919600

Option 2 ID : 42558919601

Option 3 ID : 42558919602

Option 4 ID : 42558919603

Status : Answered

Chosen Option : 2

Q.57 Match List I with List II

List I	List II
A. Digital Signature	I. Asymmetric encryption algorithm.
B. Hash Function	II. Confirms authenticity and integrity.
C. AES	III. Produces a fixed-size digest.
D. RSA	IV. Symmetric encryption algorithm.

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895043

Option 1 ID : 42558919604

Option 2 ID : 42558919605

Option 3 ID : 42558919606

Option 4 ID : 42558919607

Status : Answered

Chosen Option : 1

Q.58 Arrange the following parsers in increasing order of their power of handling grammars i.e. from the least powerful parser to the most powerful parser.

- A. LR(0)
- B. LR(1)
- C. LALR(1)
- D. LL(0)
- E. SLR

Choose the correct answer from the options given below:

- 1. $LL(0) \rightarrow LR(0) \rightarrow SLR \rightarrow LR(1) \rightarrow LALR(1)$
- 2. $SLR \rightarrow LR(0) \rightarrow LL(0) \rightarrow LR(1) \rightarrow LALR(1)$
- 3. $LL(0) \rightarrow LR(0) \rightarrow SLR \rightarrow LALR(1) \rightarrow LR(1)$
- 4. $LR(0) \rightarrow LL(0) \rightarrow SLR \rightarrow LR(1) \rightarrow LALR(1)$

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

Question Type : MCQ

Question ID : 4255895006

Option 1 ID : 42558919456

Option 2 ID : 42558919457

Option 3 ID : 42558919458

Option 4 ID : 42558919459

Status : Answered

Chosen Option : 1

Q.59 Maintaining a graph in memory by means of its adjacency matrix is known as

- (1) Complete Representation
- (2) Linked Representation
- (3) Circular Representation
- (4) Sequential Representation

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

Question Type : MCQ

Question ID : 4255894984

Option 1 ID : 42558919368

Option 2 ID : 42558919369

Option 3 ID : 42558919370

Option 4 ID : 42558919371

Status : Answered

Chosen Option : 2

Q.60 Consider the following interrupt protection levels in Linux, and arrange them in the increasing order of their priorities.

- A. User-Mode Programs (*Preemptible*)**
- B. Bottom Half Interrupt Handlers**
- C. Top Half Interrupt Handlers**
- D. Kernel System Service Routines (*Preemptible*)**

Choose the correct answer from the options given below:

- 1. $B \rightarrow A \rightarrow C \rightarrow D$
- 2. $C \rightarrow B \rightarrow A \rightarrow D$
- 3. $C \rightarrow A \rightarrow B \rightarrow D$
- 4. $A \rightarrow D \rightarrow B \rightarrow C$

Options

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

Question Type : **MCQ**

Question ID : **4255895000**

Option 1 ID : **42558919432**

Option 2 ID : **42558919433**

Option 3 ID : **42558919434**

Option 4 ID : **42558919435**

Status : **Answered**

Chosen Option : **2**

Q.61 Consider R (A,B,C,D,E) be relation with following dependencies:

$C \rightarrow F$, $E \rightarrow A$, $EC \rightarrow D$, $A \rightarrow B$. Which of the following is a key for R?

- (1) CD
- (2) EC
- (3) AE
- (4) AC

Options

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

Question Type : **MCQ**

Question ID : **4255894969**

Option 1 ID : **42558919308**

Option 2 ID : **42558919309**

Option 3 ID : **42558919310**

Option 4 ID : **42558919311**

Status : **Answered**

Chosen Option : **2**

Q.62

Which of the following trees are height balanced?

- A. Binary Search Tree
- B. AVL Tree
- C. Red-Black Tree
- D. B Tree

Choose the correct answer from the options given below:

- 1. A and D Only
- 2. A, B and D Only
- 3. C and D Only
- 4. B and C Only

Options

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

Question Type : MCQ

Question ID : 4255895022

Option 1 ID : 42558919520

Option 2 ID : 42558919521

Option 3 ID : 42558919522

Option 4 ID : 42558919523

Status : Answered

Chosen Option : 2

Q.63 Let P denote "She is intelligent" and let Q denote "She is happy."

Given below are the statements:

- (a) If She is intelligent, then She is unhappy.
- (b) She is neither intelligent nor happy.
- (c) It is necessary to be not intelligent in order to be happy.
- (d) To be not intelligent is to be unhappy.

Which of the following is correct Propositional expression for the above statements:

- (1) $P \rightarrow \neg Q$; (b) $P \wedge \neg Q$; (c) $Q \rightarrow \neg P$; (d) $P \rightarrow \neg Q$
- (2) $P \rightarrow Q$; (b) $\neg P \wedge \neg Q$; (c) $\neg Q \rightarrow P$; (d) $\neg P \rightarrow \neg Q$
- (3) $P \rightarrow \neg Q$; (b) $\neg P \wedge \neg Q$; (c) $Q \rightarrow \neg P$; (d) $\neg P \rightarrow \neg Q$
- (4) $P \rightarrow \neg Q$; (b) $P \wedge \neg Q$; (c) $Q \rightarrow P$; (d) $\neg P \rightarrow \neg Q$

Options

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

Question Type : MCQ

Question ID : 4255895011

Option 1 ID : 42558919476

Option 2 ID : 42558919477

Option 3 ID : 42558919478

Option 4 ID : 42558919479

Status : Answered

Chosen Option : 1

Q.64 The process followed in order to find difficult, unknown and hidden information about a software system is called

- (1) Software Engineering
- (2) Software Re-Engineering
- (3) Reverse Engineering
- (4) Inverse Engineering

Options

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

Question Type : MCQ

Question ID : 4255894979

Option 1 ID : 42558919348

Option 2 ID : 42558919349

Option 3 ID : 42558919350

Option 4 ID : 42558919351

Status : Answered

Chosen Option : 1

Q.65 When developing a dynamic programming algorithm, the sequence of steps followed is:

- A. Construct an optimal solution from computed information.
- B. Recursively define the value of an optimal solution.
- C. Characterize the structure of an optimal solution.
- D. Compute the value of an optimal solution, typically in a bottom-up fashion.

Choose the correct answer from the options given below:

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

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255895005

Option 1 ID : 42558919452

Option 2 ID : 42558919453

Option 3 ID : 42558919454

Option 4 ID : 42558919455

Status : Answered

Chosen Option : 4

Q.66 The packet sent by a node to the source to inform it of congestion is called

- (1) Explicit
- (2) Backpressure
- (3) Choke
- (4) Retransmission

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255894990

Option 1 ID : 42558919392

Option 2 ID : 42558919393

Option 3 ID : 42558919394

Option 4 ID : 42558919395

Status : Answered

Chosen Option : 1

Q.67 In a pack of 42 cards, 3 cards are chosen one after the other. Find the number of ways this can be done without replacement:

- (1) 1722
- (2) 1752
- (3) 68880
- (4) 6880

Options

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

Question Type : **MCQ**
 Question ID : **4255894957**
 Option 1 ID : **42558919260**
 Option 2 ID : **42558919261**
 Option 3 ID : **42558919262**
 Option 4 ID : **42558919263**
 Status : **Answered**
 Chosen Option : **2**

Q.68 The transformation of data from main memory to cache memory is referred as:

1. Data exchange
2. Data transformation
3. Mapping
4. Matching

Options

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

Question Type : **MCQ**
 Question ID : **4255894963**
 Option 1 ID : **42558919284**
 Option 2 ID : **42558919285**
 Option 3 ID : **42558919286**
 Option 4 ID : **42558919287**
 Status : **Answered**
 Chosen Option : **2**

Q.69

Match List I with List II

List I	List II
A. Address Space	I. Associative Mapping
B. Memory Space	II. Logical address
C. Cache Memory	III. physical address
D. Segmented Program	IV. Virtual address

Choose the correct answer from the options given below:

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

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

Question Type : MCQ
 Question ID : 4255895033
 Option 1 ID : 42558919564
 Option 2 ID : 42558919565
 Option 3 ID : 42558919566
 Option 4 ID : 42558919567
 Status : Answered
 Chosen Option : 2

Q.70

Consider the following table defining the sample inputs and corresponding target values for a perceptron model.

Sample No	x1	x2	target	w1	w2
S1	0	0	0	0	0
S2	0	1	1		
S3	1	0	1		
S4	1	1	1		

What shall be the value of updated weights **after** applying all the samples S1 to S4 (in the order S1, S2, S3, S4) to this model. Given that the initial weights $w_1=0$, $w_2=0$, learning rate $=0.1$ and no bias is involved in the perceptron. The activation function for this perceptron is given below

$$y_{\text{observed}} = \begin{cases} 1 & \text{if } y_{\text{in}} > 0 \\ 0 & \text{if } y_{\text{in}} < 0 \end{cases}$$

1. $w_1=0.1$, $w_2 = 0.1$
2. $w_1=0.0$, $w_2 = 0.2$
3. $w_1=0.0$, $w_2 = 0.1$
4. $w_1=0.2$, $w_2 = 0.2$

Options

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

Question Type : MCQ

Question ID : 4255894995

Option 1 ID : 42558919412

Option 2 ID : 42558919413

Option 3 ID : 42558919414

Option 4 ID : 42558919415

Status : Answered

Chosen Option : 1

Q.71 Arrange the following in the increasing order of coupling from lowest coupling to highest coupling.

A. Common Coupling

B. Stamp Coupling

C. Control Coupling

D. External Coupling

E. Content Coupling

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895002

Option 1 ID : 42558919440

Option 2 ID : 42558919441

Option 3 ID : 42558919442

Option 4 ID : 42558919443

Status : Answered

Chosen Option : 4

Q.72

The correct sequence of constructing Huffman tree is

- A. Repeat until root formed
- B. Create leaf nodes
- C. Build priority queue
- D. Combine lowest frequency nodes

Choose the correct answer from the options given below:

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

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255895004

Option 1 ID : 42558919448

Option 2 ID : 42558919449

Option 3 ID : 42558919450

Option 4 ID : 42558919451

Status : Answered

Chosen Option : 3

Q.73 Consider the following three relations

Employee (eid, eName), Comp(cid, cName), Own(eid, cid). Which of the following relational algebra expression return the set of eids who own all brands:

- (1) $\pi_{eid}(\pi_{eid,cid}(Own)/\pi_{cid}(Comp))$
- (2) $\pi_{eid}(\pi_{eid}(Own) \times \pi_{cid}(Comp))$
- (3) $\pi_{eid}(\pi_{eid,cid}(Own) \times \pi_{cid}(Comp))$
- (4) $\pi_{eid}(\pi_{eid}(Own) \times (\pi_{cid,cName}(Own)/\pi_{cid}(Comp)))$

Options

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

Question Type : MCQ

Question ID : 4255894972

Option 1 ID : 42558919320

Option 2 ID : 42558919321

Option 3 ID : 42558919322

Option 4 ID : 42558919323

Status : Answered

Chosen Option : 2

Q.74 Match List I with List II

List I	List II
A. Clustered Page Table	I. Generally considered inappropriate for 64 bit architectures.
B. Hierarchical Page Table	II. Has only entry for each real page (or frame) of memory.
C. Segmentation	III. Useful for Sparse address spaces.
D. Inverted Page Table	IV. Supports a user view of the system.

Choose the correct answer from the options given below:

1. A→III, B→IV, C→II, D→I
2. A→III, B→I, C→IV, D→II
3. A→II, B→III, C→I, D→IV
4. A→IV, B→III, C→II, D→I

Options

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

Question Type : MCQ

Question ID : 4255895036

Option 1 ID : 42558919576

Option 2 ID : 42558919577

Option 3 ID : 42558919578

Option 4 ID : 42558919579

Status : Answered

Chosen Option : 2

Q.75

The longest common subsequence of $\{1,2,3,2,4,1,2\}$ and $\{2,4,3,1,2,1\}$ is

- (1) 2,1,2,3
- (2) 1,3,2,1
- (3) 2,3,2,1
- (4) 2,3,1,2,1

Options

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

Question Type : MCQ

Question ID : 4255894983

Option 1 ID : 42558919364

Option 2 ID : 42558919365

Option 3 ID : 42558919366

Option 4 ID : 42558919367

Status : Answered

Chosen Option : 3

Q.76

Given that η refers to learning rate and x_i refers to the i^{th} input to the neuron, Which of the followings most suitably describes the weight updation rule of a Kohonen SOM? (where ' j ' refers to the j^{th} neuron in the lattice)

1. $w_{ij}(\text{new}) = (1 - \eta) * w_{ij}(\text{old}) + \eta * x_i$
2. $w_{ij}(\text{new}) = \eta * w_{ij}(\text{old}) + (1 - \eta) * x_i$
3. $w_{ij}(\text{new}) = (1 - \eta) * w_{ij}(\text{old}) + x_i$
4. $w_{ij}(\text{new}) = w_{ij}(\text{old}) + \eta * x_i$

Options

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

Question Type : MCQ

Question ID : 4255894994

Option 1 ID : 42558919408

Option 2 ID : 42558919409

Option 3 ID : 42558919410

Option 4 ID : 42558919411

Status : Answered

Chosen Option : 1

Q.77

Arrange the process of virtualization in cloud environments.

- A. Hypervisor installed on physical server
- B. Virtual machines created
- C. Resources allocated to Virtual machines
- D. Virtual machines run isolated workloads

Choose the correct answer from the options given below:

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

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255895008

Option 1 ID : 42558919464

Option 2 ID : 42558919465

Option 3 ID : 42558919466

Option 4 ID : 42558919467

Status : Answered

Chosen Option : 2

Q.78 Considering the following statements:

- A. Data transformation is involved in Datamining process.
- B. Online database is used in Data warehouse.
- C. Classification is a measure of accuracy.
- D. K-means clustering algorithm is based on the concept of minimizing the within-cluster variance.
- E. Pattern evaluation is a process to identify knowledge based on interestingness measure.

Choose the correct answer from the options given below:

- 1. B, C, E Only
- 2. B, D, E Only
- 3. A, C, E Only
- 4. A, C, D Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895029

Option 1 ID : 42558919548

Option 2 ID : 42558919549

Option 3 ID : 42558919550

Option 4 ID : 42558919551

Status : Answered

Chosen Option : 4

Q.79 Match List I with List II

List I (Operations on Fuzzy Sets)	List II (Description)
A. Intersection	I. $\mu_{\tilde{A}}(x) + \mu_{\tilde{B}}(x) - \mu_{\tilde{A}}(x) \cdot \mu_{\tilde{B}}(x)$
B. Bounded Sum	II. $\max(0, \mu_{\tilde{A}}(x) - \mu_{\tilde{B}}(x))$
C. Bounded Difference	III. $\min(1, \mu_{\tilde{A}}(x) + \mu_{\tilde{B}}(x))$
D. Algebraic Sum	IV. $\min(\mu_{\tilde{A}}(x), \mu_{\tilde{B}}(x))$

Choose the correct answer from the options given below:

1. A→III, B→I, C→II, D→IV
2. A→III, B→II, C→IV, D→I
3. A→IV, B→III, C→II, D→I
4. A→II, B→I, C→III, D→IV

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

Question Type : MCQ

Question ID : 4255895044

Option 1 ID : 42558919608

Option 2 ID : 42558919609

Option 3 ID : 42558919610

Option 4 ID : 42558919611

Status : Answered

Chosen Option : 3

Q.80

The write operation in I/O operation does the following-

1. Transfer data from I/O device to memory
2. Transfer data from memory to I/O device
3. Transfer data from CPU register to memory
4. Transfer data from CPU register to I/O device

Options

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

Question Type : **MCQ**

Question ID : **4255894962**

Option 1 ID : **42558919280**

Option 2 ID : **42558919281**

Option 3 ID : **42558919282**

Option 4 ID : **42558919283**

Status : **Answered**

Chosen Option : **1**



Q.81

Match List I with List II

List I	List II
A. Circular Queue	I. Print Queue
B. Priority Queue	II. CPU Scheduling
C. Double Ended Queue	III. Dijkstra algorithm
D. Simple Queue	IV. Palindrome checking

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895040

Option 1 ID : 42558919592

Option 2 ID : 42558919593

Option 3 ID : 42558919594

Option 4 ID : 42558919595

Status : Answered

Chosen Option : 4

Q.82 Match List I with List II

List I	List II
A. RAID Level 2	I. Block interleaved distribution parity
B. RAID Level 3	II. Also known as P+Q redundancy Scheme
C. RAID Level 5	III. Bit interleaved parity
D. RAID Level 6	IV. Also known as Memory style error correcting code organization

Choose the correct answer from the options given below:

1. A→IV, B→III, C→I, D→II
2. A→III, B→IV, C→I, D→II
3. A→I, B→III, C→IV, D→II
4. A→II, B→IV, C→I, D→III

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

Question Type : MCQ

Question ID : 4255895037

Option 1 ID : 42558919580

Option 2 ID : 42558919581

Option 3 ID : 42558919582

Option 4 ID : 42558919583

Status : Answered

Chosen Option : 1

Q.83

What will be the output of the following C programming code:

```
int i, j;  
for(i=1; i<5; i+=2)  
for(j=1; j<i; j+=2)  
printf("%d", j);
```

- (1) 1
- (2) 1 2
- (3) 1 3
- (4) 1 1 3

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

Question Type : MCQ

Question ID : 4255894967

Option 1 ID : 42558919300

Option 2 ID : 42558919301

Option 3 ID : 42558919302

Option 4 ID : 42558919303

Status : Answered

Chosen Option : 3

Q.84 The computer needs to process each instruction with the following sequence of steps:

- A. Calculate the effective address
- B. Fetch the Instruction from memory
- C. Decode the instruction
- D. Fetch the operands from the memory
- E. Execute the Instruction

Choose the correct answer from the options given below:

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

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255894996

Option 1 ID : 42558919416

Option 2 ID : 42558919417

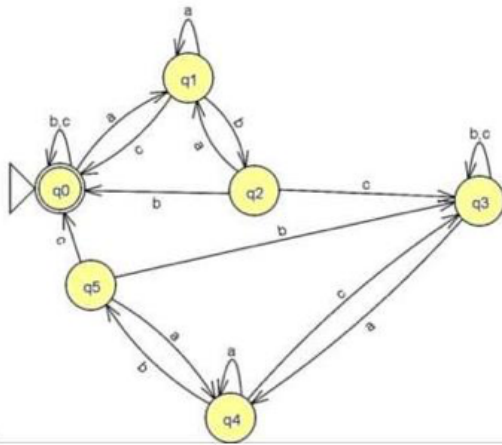
Option 3 ID : 42558919418

Option 4 ID : 42558919419

Status : Answered

Chosen Option : 3

Q.85 Consider the following DFA that generates set of strings over $\Sigma=\{a, b, c\}$



Now identify that which of the followings is the best description of the language for the above DFA

1. $L = (a^* + b^* + c^*)^*$
2. $L = (a + b + c)^*(abc)^*(a + b + c)^*$
3. $L = \{\text{Set of strings, all starting with 'a, b, c' but ending with 'c'}\}$
4. $L = \{\text{Set of strings, all having even count (including 0) of substring 'abc'}\}$

Options

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

Question Type : MCQ

Question ID : 4255894986

Option 1 ID : 42558919376

Option 2 ID : 42558919377

Option 3 ID : 42558919378

Option 4 ID : 42558919379

Status : Answered

Chosen Option : 4

Q.86

Which of the following are examples of data encoding schemes?

- A. Non-Return to Zero (NRZ)
- B. Manchester Encoding
- C. Amplitude Modulation
- D. Hamming code
- E. Bipolar AMI

Choose the correct answer from the options given below:

- 1. A, C and D Only
- 2. A, B and D Only
- 3. C, D and E Only
- 4. A, B and E Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895024

Option 1 ID : 42558919528

Option 2 ID : 42558919529

Option 3 ID : 42558919530

Option 4 ID : 42558919531

Status : Answered

Chosen Option : 4

Q.87 Consider the operators used in C Programming given below:

A. &&

B. +=

C. >>

D. >=

E. ?:

Choose among the following the correct order of precedence of the operators given above (higher to lower):

1. C, D, E, B, A

2. C, A, D, E, B

3. C, D, A, E, B

4. D, C, A, B, E

Options

1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894999

Option 1 ID : 42558919428

Option 2 ID : 42558919429

Option 3 ID : 42558919430

Option 4 ID : 42558919431

Status : Answered

Chosen Option : 1

Q.88 Match List I with List II

List I	List II
A. Oblique Projection	I. When the direction of projection is so chosen that the lines perpendicular to the plane of projection are foreshortened.
B. Cavalier Projection	II. When the direction of projection is so chosen that there is no foreshortening of lines perpendicular to the plane of projection.
C. Cabinet Projection	III. When the direction of projection is perpendicular to the plane of projection.
D. Orthographic Projection	IV. When the angle between the projectors and the plane of projection is not equal to 90°.

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895035

Option 1 ID : 42558919572

Option 2 ID : 42558919573

Option 3 ID : 42558919574

Option 4 ID : 42558919575

Status : Answered

Chosen Option : 2

Q.89

Which of the following statements are true ?

- A. In the write-through policy, only the cache is updated
- B. In the write-back policy, both cache and main memory are updated
- C. Cache coherence problems exist in multiprocessors with private caches because of the need to share writable data
- D. Cache coherence problem can be solved by means of hardware-only scheme

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895013

Option 1 ID : 42558919484

Option 2 ID : 42558919485

Option 3 ID : 42558919486

Option 4 ID : 42558919487

Status : Answered

Chosen Option : 3

Q.90

Consider the following table about processes, their burst time and arrival time

Process	Burst Time	Arrival Time
P ₁	09	0
P ₂	30	0
P ₃	04	0
P ₄	08	2
P ₅	11	6

Now which of the process shall finish second last as per the respective GANTT charts for the non-preemptive SJF and Round Robin (*time quantum* = 10) scheduling methods.

1. SJF : P₄ ; RR : P₄
2. SJF : P₅ ; RR: P₄
3. SJF : P₄ ; RR: P₃
4. SJF : P₅ ; RR: P₅

Options

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

Question Type : MCQ

Question ID : 4255894973

Option 1 ID : 42558919324

Option 2 ID : 42558919325

Option 3 ID : 42558919326

Option 4 ID : 42558919327

Status : Answered

Chosen Option : 2

Q.91 The right sequence of suboperations that are performed in arithmetic pipeline is-

- A. Align the mantissas
- B. Add or subtract the mantissas
- C. Normalize the result
- D. Compare the exponents

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894997

Option 1 ID : 42558919420

Option 2 ID : 42558919421

Option 3 ID : 42558919422

Option 4 ID : 42558919423

Status : Answered

Chosen Option : 1

Q.92 Consider the Boolean expression $A(x, y, z) = x(y'z)'$. Which of the following is complete sum-of-products form of the given Boolean expression.

- (1) $xyz + x'yz' + x'y'z'$
- (2) $xyz' + x'yz' + x'y'z'$
- (3) $xyz' + xy'z + x'y'z'$
- (4) $xyz + xyz' + xy'z'$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894959

Option 1 ID : 42558919268

Option 2 ID : 42558919269

Option 3 ID : 42558919270

Option 4 ID : 42558919271

Status : Answered

Chosen Option : 2

Q.93 What shall be the average waiting time per process if we know that 10 processes (on average) arrive every second and there are normally 20 processes in the queue?

1. 03 seconds
1. 02 seconds
2. 18 seconds
3. 09 seconds

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

Question Type : **MCQ**
Question ID : **4255894975**
Option 1 ID : **42558919332**
Option 2 ID : **42558919333**
Option 3 ID : **42558919334**
Option 4 ID : **42558919335**
Status : **Answered**
Chosen Option : 1

Q.94 Arrange the steps involved when a user enters a URL in a browser and accesses a website.

- A. DNS resolution**
- B. HTTP request sent**
- C. URL entered in the browser**
- D. IP address obtained**
- E. Webpage displayed**

Choose the correct answer from the options given below:

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

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

Question Type : **MCQ**
Question ID : **4255895007**
Option 1 ID : **42558919460**
Option 2 ID : **42558919461**
Option 3 ID : **42558919462**
Option 4 ID : **42558919463**
Status : **Answered**
Chosen Option : 4

Q.95 Which of the following statement is correct for Pthreads?

1. It refers to POSIX standard (IEEE 1002.1c)
2. This standard defines API for thread creation only
3. This is a specification only for thread behavior and not its implementation
4. Operating systems like Solaris, Linux & Mac OS X, except Tru64 UNIX, implement Pthreads

Options

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

Question Type : MCQ

Question ID : 4255894974

Option 1 ID : 42558919328

Option 2 ID : 42558919329

Option 3 ID : 42558919330

Option 4 ID : 42558919331

Status : Answered

Chosen Option : 2

Q.96 In a group of 120 people: 65 eat Rice, 45 eat bread, 42 eat curd, 20 eat both Rice and bread, 25 eat both Rice and curd, 15 eat both bread and curd, and 8 eat all three items. Which of the following is the number of people who eat at least one of the three items:

- (1) 56
- (2) 100
- (3) 92
- (4) 65

Options

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

Question Type : MCQ

Question ID : 4255894956

Option 1 ID : 42558919256

Option 2 ID : 42558919257

Option 3 ID : 42558919258

Option 4 ID : 42558919259

Status : Answered

Chosen Option : 4

Q.97

Match List I with List II

List I	List II
A. If the Indian team wins, then it is raining	I. Inverse
B. If the Indian team does not win, then it is not raining	II. Converse
C. If it is raining, then the Indian team wins	III. Contrapositive
D. If it is not raining, then the Indian team does not win	IV. Conditional

Choose the correct answer from the options given below:

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

Options

- 1
- 2
- 3
- 4

Question Type : MCQ

Question ID : 4255895031

Option 1 ID : 42558919556

Option 2 ID : 42558919557

Option 3 ID : 42558919558

Option 4 ID : 42558919559

Status : Answered

Chosen Option : 2

Q.98

Consider the following statements for XML (Extensible Markup Language) :

- A. The number of tags decreases and users can define their own tags.
- B. Its is used for Presentation.
- C. It is case sensitive.
- D. It is dynamic.

Which of the above statements are true ?

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895015

Option 1 ID : 42558919492

Option 2 ID : 42558919493

Option 3 ID : 42558919494

Option 4 ID : 42558919495

Status : Answered

Chosen Option : 4

Q.99

Which of the followings is NOT a software characteristic?

- (1) Software does not wear out
- (2) Software is flexible
- (3) Software is not manufactured
- (4) Software is always correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894980

Option 1 ID : 42558919352

Option 2 ID : 42558919353

Option 3 ID : 42558919354

Option 4 ID : 42558919355

Status : Answered

Chosen Option : 4

Q.100

Which of the following is not the characteristics of packet switching?

- (1) Data is broken into packets
- (2) Each packet may take a different route
- (3) Requires a dedicated path
- (4) Supports dynamic routing

Options

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

Question Type : MCQ

Question ID : 4255894991

Option 1 ID : 42558919396

Option 2 ID : 42558919397

Option 3 ID : 42558919398

Option 4 ID : 42558919399

Status : Answered

Chosen Option : 3

Q.101

Consider the following infix expression Q: $((A+B) * D) \uparrow (E - F)$. The equivalent postfix expression of Q is

- (1) $AB + D * EF \uparrow -$
- (2) $AB + D * - \uparrow EF$
- (3) $AB + D E * F - \uparrow$
- (4) $AB + D * EF - \uparrow$

Options

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

Question Type : MCQ

Question ID : 4255894981

Option 1 ID : 42558919356

Option 2 ID : 42558919357

Option 3 ID : 42558919358

Option 4 ID : 42558919359

Status : Answered

Chosen Option : 4

Q.102

The tight asymptotic bound for the recurrence $T(n) = 2T(n/4) + \sqrt{n}$ is

- (1) $\Theta(\sqrt{n})$
- (2) $\Theta(n \log n)$
- (3) $\Theta(\sqrt{n} \log n)$
- (4) $\Theta(n \log \sqrt{n})$

Options

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

Question Type : MCQ

Question ID : 4255894982

Option 1 ID : 42558919360

Option 2 ID : 42558919361

Option 3 ID : 42558919362

Option 4 ID : 42558919363

Status : Answered

Chosen Option : 2

Q.103

What is the total swap time (*Swap in & Swap out*) in a system for a 15 MB process with a transfer rate of 30 MBps. Given that there is an average latency of 12 ms, however no head seeks involved.

1. 1.024 sec
2. 1.00 sec
3. 0.512 sec
4. 12 sec

Options

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

Question Type : MCQ

Question ID : 4255894976

Option 1 ID : 42558919336

Option 2 ID : 42558919337

Option 3 ID : 42558919338

Option 4 ID : 42558919339

Status : Answered

Chosen Option : 1

Q.104 A positive integer selected at random from the set of positive integers not exceeding 200. Which of the followings is the probability that the selected number is divisible by either 2 or 5?

- (1) $\frac{2}{5}$
- (2) $\frac{3}{5}$
- (3) $\frac{4}{5}$
- (4) $\frac{1}{5}$

Options

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

Question Type : **MCQ**

Question ID : **4255894958**

Option 1 ID : **42558919264**

Option 2 ID : **42558919265**

Option 3 ID : **42558919266**

Option 4 ID : **42558919267**

Status : **Answered**

Chosen Option : **2**

Q.105 Consider the following steps involved in the application of Genetic algorithm for a problem

- A. Select a pair of parents from the population**
- B. Apply mutation at each locus with probability p_m**
- C. Calculate fitness of each member of the population**
- D. Apply crossover with probability p_c to form offsprings**

Choose the correct answer from the options given below describing the correct order of the above steps:

1. $A \rightarrow C \rightarrow B \rightarrow D$
2. $C \rightarrow A \rightarrow D \rightarrow B$
3. $C \rightarrow A \rightarrow B \rightarrow D$
4. $A \rightarrow D \rightarrow B \rightarrow C$

Options

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

Question Type : **MCQ**

Question ID : **4255895010**

Option 1 ID : **42558919472**

Option 2 ID : **42558919473**

Option 3 ID : **42558919474**

Option 4 ID : **42558919475**

Status : **Answered**

Chosen Option : **3**

Q.106

In a relational database, which one of the following is CORRECT:

- (1) A relation with only two attributes is always in BCNF.
- (2) If all attributes of a relation are prime attributes then the relation is in BCNF.
- (3) Every relation has at least one non-prime attribute.
- (4) BCNF decomposition preserves functional dependencies.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894971

Option 1 ID : 42558919316

Option 2 ID : 42558919317

Option 3 ID : 42558919318

Option 4 ID : 42558919319

Status : Answered

Chosen Option : 2



Q.107 Match List I with List II

List I (Hashing Collison Handling Method)	List II (Strategy)
A. Chaining	I. Check next slot
B. Linear Probing	II. Use second hash function
C. Quadratic Probing	III. Linked list at index
D. Double Hashing	IV. Skip slots using quadratic step

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895041

Option 1 ID : 42558919596

Option 2 ID : 42558919597

Option 3 ID : 42558919598

Option 4 ID : 42558919599

Status : Answered

Chosen Option : 3

Q.108

Binary equivalent to $(A0F)_{16}$ is :

1. 111000111
2. 101001111
3. 101000001111
4. 111100001010

Options

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

Question Type : MCQ

Question ID : 4255894961

Option 1 ID : 42558919276

Option 2 ID : 42558919277

Option 3 ID : 42558919278

Option 4 ID : 42558919279

Status : Answered

Chosen Option : 2

Q.109

In a Stop-and-wait system, the bandwidth of the line is 1 Mbps, and 1 bit takes 30 milliseconds to make a round trip. The bandwidth-delay product is

- (1) 15,000 bits
- (2) 20,000 bits
- (3) 30,000 bits
- (4) 60,000 bits

Options

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

Question Type : MCQ

Question ID : 4255894988

Option 1 ID : 42558919384

Option 2 ID : 42558919385

Option 3 ID : 42558919386

Option 4 ID : 42558919387

Status : Answered

Chosen Option : 3

Q.110 CB84000D001C001C is the content of a UDP header in hexadecimal format. The source port number is

- (1) 52100
- (2) 13
- (3) 28
- (4) 52000

Options

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

Question Type : MCQ

Question ID : 4255894989

Option 1 ID : 42558919388

Option 2 ID : 42558919389

Option 3 ID : 42558919390

Option 4 ID : 42558919391

Status : Answered

Chosen Option : 4

Q.111 Identify the correct statement(s) from the followings with respect to Spinlock Semaphores

- A. The name refers to busy waiting semaphores.
 - B. They are not useful when the locks are to be held for a short duration of time.
 - C. It may require multiple context switches when a process waits on a lock.
 - D. They are often employed on Uniprocessor systems.
- Choose the correct answer from the options given below:

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

Options

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

Question Type : MCQ

Question ID : 4255895018

Option 1 ID : 42558919504

Option 2 ID : 42558919505

Option 3 ID : 42558919506

Option 4 ID : 42558919507

Status : Answered

Chosen Option : 3

- Q.112** Which of the followings is Not a parent selection technique used in genetic algorithm implementations
1. Radial
 2. Tournament
 3. Boltzmann
 4. Rank

Options

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

Question Type : **MCQ**
 Question ID : **4255894993**
 Option 1 ID : **42558919404**
 Option 2 ID : **42558919405**
 Option 3 ID : **42558919406**
 Option 4 ID : **42558919407**
 Status : **Answered**
 Chosen Option : **2**

- Q.113** Arrange the following types of testing in the order they are usually performed in the software Development life cycle.
- A. Integration testing**
 - B. Unit testing**
 - C. System Testing**
 - D. Acceptance Testing**

Choose the correct answer from the options given below:

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

Options

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

Question Type : **MCQ**
 Question ID : **4255895003**
 Option 1 ID : **42558919444**
 Option 2 ID : **42558919445**
 Option 3 ID : **42558919446**
 Option 4 ID : **42558919447**
 Status : **Answered**
 Chosen Option : **2**

Q.114

What will be the output of the following C Programming code :

```
void main ( )
{
    int *i, a=12, b=2, c;
    c= (a=a+b, b=a/b, a=a*b, b=a-b)
    i = &c;
    printf("%d", --(*i));
}
```

1. 91
2. 90
3. 98
4. 92

Options

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

Question Type : MCQ

Question ID : 4255894985

Option 1 ID : 42558919372

Option 2 ID : 42558919373

Option 3 ID : 42558919374

Option 4 ID : 42558919375

Status : Answered

Chosen Option : 3

Q.115

Which of the following gates do not give output 1 when both the inputs are 0-

- A. NAND gate
- B. NOR gate
- C. X-OR gate
- D. X-NOR gate

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895014

Option 1 ID : 42558919488

Option 2 ID : 42558919489

Option 3 ID : 42558919490

Option 4 ID : 42558919491

Status : Answered

Chosen Option : 2

Q.116

Match List I with List II

List I	List II
A. Type 3 Grammar	I. $V \rightarrow (V \cup \Sigma)^*$
B. Type 2 Grammar	II. $\lambda V \beta \rightarrow \lambda(V \cup \Sigma)^* \beta$, where $(\lambda, \beta) \in (V \cup \Sigma)^*$
C. Type 1 Grammar	III. $(V \cup \Sigma)^* \rightarrow (V \cup \Sigma)^*$
D. Type 0 Grammar	IV. $V \rightarrow V \Sigma \mid \Sigma$

Choose the correct answer from the options given below:

1. $A \rightarrow II, B \rightarrow III, C \rightarrow IV, D \rightarrow I$
2. $A \rightarrow III, B \rightarrow I, C \rightarrow IV, D \rightarrow II$
3. $A \rightarrow IV, B \rightarrow I, C \rightarrow II, D \rightarrow III$
4. $A \rightarrow III, B \rightarrow II, C \rightarrow I, D \rightarrow IV$

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

Question Type : MCQ

Question ID : 4255895032

Option 1 ID : 42558919560

Option 2 ID : 42558919561

Option 3 ID : 42558919562

Option 4 ID : 42558919563

Status : Answered

Chosen Option : 1

Q.117

Consider the following piece of C programming code:

```
int x=128, y=110;

do
{
    If( x > y)
        x = x - y;
    else
        y = y - x;
} while(x != y)

printf("%d",x);
```

Which one will be the output?

- (1) 18
- (2) 2
- (3) 92
- (4) 74

Options

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

Question Type : MCQ

Question ID : 4255894965

Option 1 ID : 42558919292

Option 2 ID : 42558919293

Option 3 ID : 42558919294

Option 4 ID : 42558919295

Status : Answered

Chosen Option : 1

Q.118

Which of the following is not a requirement elicitation Technique

- (1) Interviews
- (2) The use case approach
- (3) Facilitated Application Specification Technique (FAST)
- (4) Data Flow diagram

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255894977**

Option 1 ID : **42558919340**

Option 2 ID : **42558919341**

Option 3 ID : **42558919342**

Option 4 ID : **42558919343**

Status : **Answered**

Chosen Option : **3**



Q.119

Which of the following cohesions are better than the Procedural Cohesion

- A. Functional Cohesion
- B. Sequential Cohesion
- C. Temporal Cohesion
- D. Communicational Cohesion
- E. Logical Cohesion

Choose the correct answer from the options given below:

- 1. A and D Only
- 2. A, B 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 : 4255895019

Option 1 ID : 42558919508

Option 2 ID : 42558919509

Option 3 ID : 42558919510

Option 4 ID : 42558919511

Status : Answered

Chosen Option : 4

Q.120

Consider the following steps used by a knowledge base designer to represent a world

- A. Selects atoms to represent propositions
- B. Ask questions about intended interpretation
- C. Choose a task domain
- D. Axiomatizing the domain

Choose the correct answer from the options given below:

- 1. $C \rightarrow A \rightarrow D \rightarrow B$
- 2. $C \rightarrow A \rightarrow B \rightarrow D$
- 3. $B \rightarrow C \rightarrow A \rightarrow D$
- 4. $A \rightarrow C \rightarrow B \rightarrow D$

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255895009

Option 1 ID : 42558919468

Option 2 ID : 42558919469

Option 3 ID : 42558919470

Option 4 ID : 42558919471

Status : Answered

Chosen Option : 1

Q.121

Only legal pointer operations:

- A. $\text{pointer} + \text{number} \rightarrow \text{pointer}$
- B. $\text{pointer} - \text{number} \rightarrow \text{number}$
- C. $\text{pointer} + \text{pointer} \rightarrow \text{pointer}$
- D. $\text{pointer} - \text{pointer} \rightarrow \text{pointer}$
- E. $\text{pointer} - \text{pointer} \rightarrow \text{number}$

Choose the most appropriate answer from the options given below:

- 1. A, B, C Only
- 2. A, B, D Only
- 3. A, B Only
- 4. A, E Only

Options

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

Question Type : MCQ

Question ID : 4255895016

Option 1 ID : 42558919496

Option 2 ID : 42558919497

Option 3 ID : 42558919498

Option 4 ID : 42558919499

Status : Answered

Chosen Option : 2

Q.122 Which of the following statements is/are TRUE about encryptions techniques?

- A. In symmetric key cryptography, the secrecy/protection of the key generating function must be of higher level than the decrypting function.
- B. The DES technique works by taking 64 bit chunk value and 56 bit key over a series of transformations.
- C. The Twofish symmetric block algorithm works on variable key length of upto 196 bits over a block of 128 bits.
- D. RC₄ is the most commonly used stream cipher that encrypts & decrypts a stream of bits/bytes instead of blocks.

Choose the correct answer from the options given below:

- 1. B, C Only
- 2. A, D Only
- 3. A, C Only
- 4. B, C and D Only

Options

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

Question Type : MCQ

Question ID : 4255895028

Option 1 ID : 42558919544

Option 2 ID : 42558919545

Option 3 ID : 42558919546

Option 4 ID : 42558919547

Status : Answered

Chosen Option : 4

Q.123 Match List I with List II

List I	List II
A. Overloading	I. Since function call is resolved during run time, the execution is Slow.
B. Early binding	II. Since function call is resolved during compilation time, the execution is much faster.
C. Overriding	III. Supports compile-time polymorphism.
D. Late Binding	IV. Supports run-time polymorphism.

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895034

Option 1 ID : 42558919568

Option 2 ID : 42558919569

Option 3 ID : 42558919570

Option 4 ID : 42558919571

Status : Answered

Chosen Option : 3

Q.124

Consider the following statements regarding Agent systems

- A. Agent system comprises of an agent and an environment on which it acts
- B. The controller part of an agent receives percepts from its body and sends commands to the environment
- C. Agents act in the world through actuators which are non-noisy and always reliable.
- D. The actuators of an agent convert stimuli into percepts

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895025

Option 1 ID : 42558919532

Option 2 ID : 42558919533

Option 3 ID : 42558919534

Option 4 ID : 42558919535

Status : Answered

Chosen Option : 2

Q.125

Which of the following algorithms use Greedy strategy?

- A. Dijkstra's algorithm
- B. Kruskal's algorithm
- C. Huffman coding
- D. Bellman-Ford algorithm

Choose the correct answer from the options given below:

- 1. A, B and D Only
- 2. A, B and C Only
- 3. C and D Only
- 4. A and D Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255895021

Option 1 ID : 42558919516

Option 2 ID : 42558919517

Option 3 ID : 42558919518

Option 4 ID : 42558919519

Status : Answered

Chosen Option : 1

Q.126

Consider the relation $T1(A,B,C,D,E)$ with the dependencies $\{EB \rightarrow C, D \rightarrow E, EA \rightarrow B\}$ and $T2(A,B,C,D)$ with the dependencies $\{C \rightarrow A, A \rightarrow B, A \rightarrow D\}$. Which of the following is TRUE?

- (1) $T1$ is in 3NF
- (2) $T2$ is in 3NF
- (3) $T1$ is not in 3NF
- (4) $T1$ is in 2NF

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255894970

Option 1 ID : 42558919312

Option 2 ID : 42558919313

Option 3 ID : 42558919314

Option 4 ID : 42558919315

Status : Answered

Chosen Option : 1

Q.127 Once the process is allocated CPU and executing which of the following events could not occur?

- A. The process could issue an I/O request and then be placed in the Ready Queue
- B. The process could create new subprocesses & wait for the termination of the subprocesses
- C. The time slice of the process expires and it may join the waiting queue
- D. The process is forcibly removed from the CPU and is put in the Waiting queue due to arrival of an interrupt

Choose the correct answer from the options given below:

- 1. B Only
- 2. D Only
- 3. A and C Only
- 4. A, C and D Only

Options

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

Question Type : **MCQ**

Question ID : **4255895017**

Option 1 ID : **42558919500**

Option 2 ID : **42558919501**

Option 3 ID : **42558919502**

Option 4 ID : **42558919503**

Status : **Answered**

Chosen Option : **1**

Q.128

Let m and n are positive integers. Then

- (A) If $n \neq 1$, then $m < mn$.
- (B) If k is composite, then $k = mn$ where $1 < m, n < k$
- (C) If $mn = 1$, then $m = 1$ and $n = 1$.
- (D) If k is composite, then $k = mn$ where $1 < m, n < k$

Which of the following is correct:

- (1) (A), (C), (D)
- (2) (B), (C), (D)
- (3) (A), (B)
- (4) (A), (B), (C)

Options

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

Question Type : MCQ

Question ID : 4255895012

Option 1 ID : 42558919480

Option 2 ID : 42558919481

Option 3 ID : 42558919482

Option 4 ID : 42558919483

Status : Answered

Chosen Option : 3

Q.129

The right sequence of CPU program to input data will be :

- A. Read status register
- B. Check flag bit
- C. Read Data Register
- D. Transfer data to memory

Choose the correct answer from the options given below:

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

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255894998

Option 1 ID : 42558919424

Option 2 ID : 42558919425

Option 3 ID : 42558919426

Option 4 ID : 42558919427

Status : Answered

Chosen Option : 1

Q.130

Estimation of software development effort for organic software in basic COCOMO is

- (1) $E = 2.4 (KLOC)^{1.05} PM$
- (2) $E = 3.4 (KLOC)^{1.06} PM$
- (3) $E = 2.0 (KLOC)^{1.05} PM$
- (4) $E = 2.4 (KLOC)^{1.07} PM$

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 4255894978

Option 1 ID : 42558919344

Option 2 ID : 42558919345

Option 3 ID : 42558919346

Option 4 ID : 42558919347

Status : Answered

Chosen Option : 1

Q.131

Which of the following technique is used for Clipping?

- (1) Stack based Seed
- (2) Scan Line Seed
- (3) Sutherland-Cohen
- (4) Inverse Scaling

Options

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

Question Type : MCQ

Question ID : 4255894966

Option 1 ID : 42558919296

Option 2 ID : 42558919297

Option 3 ID : 42558919298

Option 4 ID : 42558919299

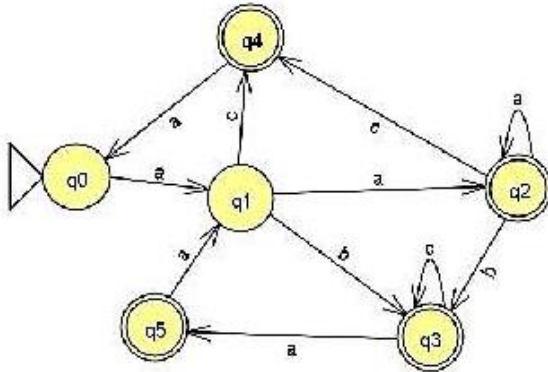
Status : Answered

Chosen Option : 3

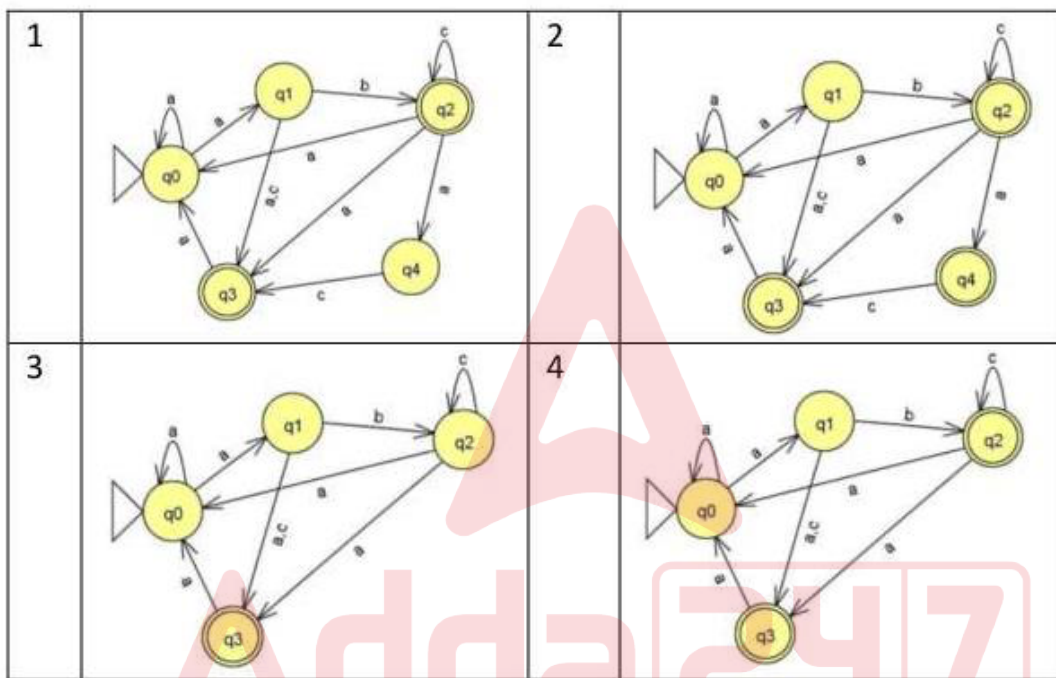


Q.132

Consider the following DFA



Which of the following NFA is valid for the given DFA ?



Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255894987

Option 1 ID : 42558919380

Option 2 ID : 42558919381

Option 3 ID : 42558919382

Option 4 ID : 42558919383

Status : Answered

Chosen Option : 1

Q.133 Which of the followings shows the correct hierarchy of a layered file system in an operating system

- A. Logical File System
- B. File Organization Module
- C. Basic File System
- D. I/O Control
- E. Application Programs

Choose the correct answer from the options given below:

- 1. $A \rightarrow B \rightarrow D \rightarrow C \rightarrow E$
- 2. $D \rightarrow E \rightarrow C \rightarrow A \rightarrow B$
- 3. $E \rightarrow A \rightarrow B \rightarrow C \rightarrow D$
- 4. $E \rightarrow C \rightarrow B \rightarrow A \rightarrow D$

Options

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

Question Type : MCQ

Question ID : 4255895001

Option 1 ID : 42558919436

Option 2 ID : 42558919437

Option 3 ID : 42558919438

Option 4 ID : 42558919439

Status : Answered

Chosen Option : 2

Q.134 Choose the correct statement for a group G:

- (1) If for all $x, y \in G$, $(xy)^2 = x^2y^2$ then G is Commutative.
- (2) If for all $x \in G$, $x^3 = 1$, then G is Commutative. 1 is the identity element of G.
- (3) If for all $x \in G$, $x^5 = 1$, then G is Commutative. 1 is the identity element of G.
- (4) If G is Commutative, the sub-group of G need not be Commutative.

Options

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

Question Type : MCQ

Question ID : 4255894960

Option 1 ID : 42558919272

Option 2 ID : 42558919273

Option 3 ID : 42558919274

Option 4 ID : 42558919275

Status : Answered

Chosen Option : 2

Q.135 Considering the following statements:

- A. A non-serial schedule is said to be conflict serializable, if it is conflict-equivalent to some serial schedule.
- B. A non-serial schedule is said to be view serializable if it is view-equivalent to some serial schedule.
- C. A schedule is said to be serial, if instructions of participating transactions are chronologically interleaved with each other.
- D. A conflict-serializable schedule will be view-serializable also but vice-versa may not be true.

Choose the correct answer from the options given below:

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

Options

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

Question Type : MCQ

Question ID : 4255895030

Option 1 ID : 42558919552

Option 2 ID : 42558919553

Option 3 ID : 42558919554

Option 4 ID : 42558919555

Status : Answered

Chosen Option : 4

Q.136 Gray code equivalent to decimal number 8 is:

- 1. 1000
- 2. 1100
- 3. 1010
- 4. 1110

Options

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

Question Type : MCQ

Question ID : 4255894964

Option 1 ID : 42558919288

Option 2 ID : 42558919289

Option 3 ID : 42558919290

Option 4 ID : 42558919291

Status : Answered

Chosen Option : 1

Q.137 Match List I with List II

List I (GA termination criteria)	List II (description)
A. Worst Individual	I. At least half of the individual will be better than or equal to convergence value
B. Best Individual	II. Guarantees that virtually all individuals in the population will be within a particular fitness range
C. Sum of Fitness	III. Guarantees that the entire population to be of a minimum standard
D. Median Fitness	IV. Faster search Convergence, guaranteeing at least one best solution

Choose the correct answer from the options given below:

1. A→III, B→IV, C→II, D→I
2. A→IV, B→III, C→I, D→II
3. A→II, B→I, C→III, 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 : 4255895045

Option 1 ID : 42558919612

Option 2 ID : 42558919613

Option 3 ID : 42558919614

Option 4 ID : 42558919615

Status : Answered

Chosen Option : 2

Q.138

Which of the following Grammars is/are only Context Free?

A	$S \rightarrow Ab$ $aS \rightarrow aA$ $A \rightarrow a$	B	$S \rightarrow Ab$ $A \rightarrow Sa$ $A \rightarrow a$
C	$S \rightarrow AS$ $S \rightarrow aA$ $A \rightarrow a$	D	$S \rightarrow Ab$ $S \rightarrow aA$ $A \rightarrow a$
E	$S \rightarrow Sb$ $A \rightarrow Aa$ $A \rightarrow \epsilon$		

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895027

Option 1 ID : 42558919540

Option 2 ID : 42558919541

Option 3 ID : 42558919542

Option 4 ID : 42558919543

Status : Answered

Chosen Option : 1

Q.139 Match List I with List II

List I (Software Quality Characteristic)	List II (Description)
A. Reliability	I. Ability to transfer the software from one organization or hardware / software environment to another.
B. Efficiency	II. Capability of software to maintain its level of performance under stated conditions for a stated period of time.
C. Maintainability	III. Relationship between the level of performance of the software and the amount of resources used, under stated conditions.
D. Portability	IV. Effort needed to make modifications, including corrections, improvements or adaptation of software to changes in environment, requirements and functional specifications.

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID : 4255895038

Option 1 ID : 42558919584

Option 2 ID : 42558919585

Option 3 ID : 42558919586

Option 4 ID : 42558919587

Status : Answered

Chosen Option : 2

Q.140 Consider the following statements regarding STRIPS representation of a Planning problem

- A. STRIPS is a Feature-centric representation
- B. The features describing state of the world are divided into Primitive and Derived
- C. The STRIPS representation of the action comprises of Precondition and Effect
- D. STRIPS can directly define conditional effects.

Choose the correct answer from the options given below:

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895026

Option 1 ID : 42558919536

Option 2 ID : 42558919537

Option 3 ID : 42558919538

Option 4 ID : 42558919539

Status : Answered

Chosen Option : 2

Comprehension:

Adda247

Consider the following Three Address code sample for solving the questions :

100 : $t1 = y + 2$

101 : $initial = x / t1$

102 : $limit = 10$

103 : if $i > j$ goto 105

104 : goto 111

105 : if $num > b$ goto 107

106 : goto 111

107 : $num = limit - 1$

108 : $b = y + 2$

109 : $i = i - num$

110 : goto 103

111 : $j = i - num$

112 : $k = j + b$

SubQuestion No : 141

Q.141

Which of the followings is the correct Flow graph for the TAC given in the passage?

1.
$$\begin{bmatrix} 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

2.
$$\begin{bmatrix} 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

3.
$$\begin{bmatrix} 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 \end{bmatrix}$$

4.
$$\begin{bmatrix} 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895049

Option 1 ID : 42558919624

Option 2 ID : 42558919625

Option 3 ID : 42558919626

Option 4 ID : 42558919627

Status : Answered

Chosen Option : 3

Comprehension:

Consider the following Three Address code sample for solving the questions :

100 : $t1 = y + 2$

101 : $initial = x / t1$

102 : $limit = 10$

103 : if $i > j$ goto 105

104 : goto 111

105 : if $num > b$ goto 107

106 : goto 111

107 : $num = limit - 1$

108 : $b = y + 2$

109 : $i = i - num$

110 : goto 103

111 : $j = i - num$

112 : $k = j + b$



SubQuestion No : 142

Q.142

Which of the following is the correct High level code for the given TAC in the passage

1	<pre> t1 = y+2 init = x/t1; limit=10; if(i>j num>b) { num = limit-1; b = y + 2; i = i - num; } j = i - num; k = k+b; </pre>	2	<pre> init = x/(y+2); limit=10; while(i>j num>b) { num = limit-1; b = y + 2; i = i - num; } j = i - num; k = k+b; </pre>
3	<pre> init = x/(y+2); limit=10; if(i>j) { While(num>b) num = limit-1; } else { b = y + 2; i = i - num; } j = i - num; k = k+b; </pre>	4	<pre> init = x/(y+2); limit=10; while(i>j && num>b) { num = limit-1; b = y + 2; i = i - num; } j = i - num; k = k+b; </pre>

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **4255895047**

Option 1 ID : **42558919616**

Option 2 ID : **42558919617**

Option 3 ID : **42558919618**

Option 4 ID : **42558919619**

Status : **Answered**

Chosen Option : **1**

Comprehension:

Consider the following Three Address code sample for solving the questions :

100 : $t1 = y + 2$

101 : $initial = x / t1$

102 : $limit = 10$

103 : if $i > j$ goto 105

104 : goto 111

105 : if $num > b$ goto 107

106 : goto 111

107 : $num = limit - 1$

108 : $b = y + 2$

109 : $i = i - num$

110 : goto 103

111 : $j = i - num$

112 : $k = j + b$

SubQuestion No : 143

Q.143 What all blocks does Block 3 & Block 5 dominate in the Flow graph for the TAC given in the passage?

1. Block 3 : 3 ; Block 5 : 5
2. Block 3 : 3, 4, 5, 6 ; Block 5 : 5, 6
3. Block 3 : 3, 7 ; Block 5 : 5, 7
4. Block 3 : 3, 4, 7 ; Block 5 : 5, 6, 7

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

Question Type : MCQ

Question ID : 4255895050

Option 1 ID : 42558919628

Option 2 ID : 42558919629

Option 3 ID : 42558919630

Option 4 ID : 42558919631

Status : Answered

Chosen Option : 2

Comprehension:

Consider the following Three Address code sample for solving the questions :

100 : $t1 = y + 2$

101 : $initial = x / t1$

102 : $limit = 10$

103 : if $i > j$ goto 105

104 : goto 111

105 : if $num > b$ goto 107

106 : goto 111

107 : $num = limit - 1$

108 : $b = y + 2$

109 : $i = i - num$

110 : goto 103

111 : $j = i - num$

112 : $k = j + b$



SubQuestion No : 144

Q.144

Which of the following is the Optimized version for the given TAC in the passage

1	100 : t1 = y+2 101 : initial = x/t1 102 : limit = 10 103 : if i > j goto 105 104 : goto 111 105 : if num > b goto 107 106 : goto 111 107 : b = y+2 108 : i = i - limit-1 109 : goto 103 110 : k= i+b	2	100 : t1 = y+2 101 : initial = x/t1 102 : limit = 10 103 : if i > j goto 105 104 : if num < b goto 111 105 : num = limit-1 106 : b = t1 107 : i = i - num 108 : goto 103 109 : k= i+b
3	100 : t1 = y+2 101 : initial = x/t1 102 : limit = 10 103 : num = 9 104 : if i > j goto 105 105 : goto 111 106 : if num > b goto 107 107 : goto 111 108 : i = i - num 109 : goto 103 110 : j = i - num 111 : k= j+t1	4	100 : t1 = y+2 101 : initial = x/t1 102 : limit = 10 103 : if i > j goto 105 104 : goto 111 105 : if num < b goto 111 106 : num = limit-1 107 : b = t1 108 : i = i - num 109 : goto 103 110 : k= i+b

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

Question Type : MCQ
Question ID : 4255895051
Option 1 ID : 42558919632
Option 2 ID : 42558919633
Option 3 ID : 42558919634
Option 4 ID : 42558919635
Status : Answered
Chosen Option : 2

Comprehension:

Consider the following Three Address code sample for solving the questions :

100 : $t1 = y + 2$

101 : $initial = x / t1$

102 : $limit = 10$

103 : if $i > j$ goto 105

104 : goto 111

105 : if $num > b$ goto 107

106 : goto 111

107 : $num = limit - 1$

108 : $b = y + 2$

109 : $i = i - num$

110 : goto 103

111 : $j = i - num$

112 : $k = j + b$

SubQuestion No : 145

Q.145

What are the various LEADERS (leading statements) for the TAC given in the passage?

1. 100, 102, 103, 104, 105, 107, 110
2. 100, 103, 105, 107, 111, 112
3. 100, 103, 105, 106, 107, 111
4. 100, 103, 104, 105, 106, 107, 111

Options

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

Question Type : MCQ

Question ID : 4255895048

Option 1 ID : 42558919620

Option 2 ID : 42558919621

Option 3 ID : 42558919622

Option 4 ID : 42558919623

Status : Answered

Chosen Option : 3

Comprehension:

Consider the following disc Queue with requests for I/O to block on cylinders :

45, 81, 185, 33, 175, 99, 150, 77

(Consider that the head starts from location 58)

SubQuestion No : 146

Q.146 What shall be the total head movement of cylinders for the C-SCAN disc Scheduling technique if the head starts moving in the right direction from initial position ?

- (1) 327
- (2) 307
- (3) 525
- (4) 385

Options

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

Question Type : MCQ

Question ID : 4255895056

Option 1 ID : 42558919648

Option 2 ID : 42558919649

Option 3 ID : 42558919650

Option 4 ID : 42558919651

Status : Answered

Chosen Option : 1

Comprehension:

Consider the following disc Queue with requests for I/O to block on cylinders :

45, 81, 185, 33, 175, 99, 150, 77

(Consider that the head starts from location 58)

SubQuestion No : 147

Q.147 What shall be the 2nd request being processed by C-LOOK (Right) disc Scheduling technique for the already given request queue ?

- (1) 81
- (2) 45
- (3) 77
- (4) 33

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 4255895057

Option 1 ID : 42558919652

Option 2 ID : 42558919653

Option 3 ID : 42558919654

Option 4 ID : 42558919655

Status : Answered

Chosen Option : 3

Comprehension:

Consider the following disc Queue with requests for I/O to block on cylinders :

45, 81, 185, 33, 175, 99, 150, 77

(Consider that the head starts from location 58)

SubQuestion No : 148

- Q.148** What shall be the total head movement of cylinders if the FCFS disc scheduling method is used ?
- (1) 536
 - (2) 594
 - (3) 647
 - (4) 700

Options

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

Question Type : **MCQ**

Question ID : **4255895053**

Option 1 ID : **42558919636**

Option 2 ID : **42558919637**

Option 3 ID : **42558919638**

Option 4 ID : **42558919639**

Status : **Answered**

Chosen Option : **2**

Comprehension:

Consider the following disc Queue with requests for I/O to block on cylinders :

45, 81, 185, 33, 175, 99, 150, 77

(Consider that the head starts from location 58)

SubQuestion No : 149

Q.149

What will be the total head movement of cylinders for the SSTF disc Scheduling technique ?

- (1) 160
- (2) 124
- (3) 177
- (4) 240

Options

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

Question Type : MCQ

Question ID : 4255895054

Option 1 ID : 42558919640

Option 2 ID : 42558919641

Option 3 ID : 42558919642

Option 4 ID : 42558919643

Status : Answered

Chosen Option : 3