

Comprehension:

Answer the questions from 01 to 05 on the basis of information given below:

There is a firm which provides consultancy related to various areas like, Education, Finance, Health, Social Media, Marriage and Others on the basis of applications received. The following table shows the percent of applications received for consultancy over time under different areas. The total number of applications received during Feb 2025 was larger than the number received in Apr 2025. The total number of applications received during Jan 2025 was larger than the number received in Mar 2025.

Area	Percentage of applications received			
	Jan 2025	Feb 2025	Mar 2025	Apr 2025
Education	38	33	19	17
Finance	25	30	37	45
Health	11	18	5	18
Social Media	5	3	10	6
Marriage	3	7	10	11
Others	18	9	19	3
Total Percentage	100%	100%	100%	100%

SubQuestion No : 2

Q.2 If the total number of applications received in Feb 2025 was less than number of applications received in Jan 2025 but more than that of in Mar 2025, then what will be the order of the months in terms of number of applications received?

1. Apr > Mar > Feb > Jan
2. Jan > Feb > Mar > Apr
3. Jan > Feb > Apr > Mar
4. can not be determined.

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118950

Option 1 ID : 55125173817

Option 2 ID : 55125173818

Option 3 ID : 55125173819

Option 4 ID : 55125173820

Status : Answered

Chosen Option : 4

Comprehension:

Answer the questions from 01 to 05 on the basis of information given below:

There is a firm which provides consultancy related to various areas like, Education, Finance, Health, Social Media, Marriage and Others on the basis of applications received. The following table shows the percent of applications received for consultancy over time under different areas. The total number of applications received during Feb 2025 was larger than the number received in Apr 2025. The total number of applications received during Jan 2025 was larger than the number received in Mar 2025.

Area	Percentage of applications received			
	Jan 2025	Feb 2025	Mar 2025	Apr 2025
Education	38	33	19	17
Finance	25	30	37	45
Health	11	18	5	18
Social Media	5	3	10	6
Marriage	3	7	10	11
Others	18	9	19	3
Total Percentage	100%	100%	100%	100%

SubQuestion No : 3

Q.3 If in the area of 'Social Media', the number of applications received in Jan 2025 was equal to the number of applications received in Mar 2025, then the total number of applications received under this area in Mar 2025 was _____ of the total number of applications received in Jan 2025.

1. Exact Double
2. Exact Half
3. More than Half
4. Less than Half

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118949

Option 1 ID : 55125173813

Option 2 ID : 55125173814

Option 3 ID : 55125173815

Option 4 ID : 55125173816

Status : Answered

Chosen Option : 2

Comprehension:

Answer the questions from 01 to 05 on the basis of information given below:

There is a firm which provides consultancy related to various areas like, Education, Finance, Health, Social Media, Marriage and Others on the basis of applications received. The following table shows the percent of applications received for consultancy over time under different areas. The total number of applications received during Feb 2025 was larger than the number received in Apr 2025. The total number of applications received during Jan 2025 was larger than the number received in Mar 2025.

Area	Percentage of applications received			
	Jan 2025	Feb 2025	Mar 2025	Apr 2025
Education	38	33	19	17
Finance	25	30	37	45
Health	11	18	5	18
Social Media	5	3	10	6
Marriage	3	7	10	11
Others	18	9	19	3
Total Percentage	100%	100%	100%	100%

SubQuestion No : 4

Q.4 In the area of health, the number of applications received in Feb 2025 as compared to Apr 2025 was:

1. Equal
2. Larger
3. Smaller
4. Can not be determined

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118947

Option 1 ID : 55125173805

Option 2 ID : 55125173806

Option 3 ID : 55125173807

Option 4 ID : 55125173808

Status : Answered

Chosen Option : 1

Comprehension:

Answer the questions from 01 to 05 on the basis of information given below:

There is a firm which provides consultancy related to various areas like, Education, Finance, Health, Social Media, Marriage and Others on the basis of applications received. The following table shows the percent of applications received for consultancy over time under different areas. The total number of applications received during Feb 2025 was larger than the number received in Apr 2025. The total number of applications received during Jan 2025 was larger than the number received in Mar 2025.

Area	Percentage of applications received			
	Jan 2025	Feb 2025	Mar 2025	Apr 2025
Education	38	33	19	17
Finance	25	30	37	45
Health	11	18	5	18
Social Media	5	3	10	6
Marriage	3	7	10	11
Others	18	9	19	3
Total Percentage	100%	100%	100%	100%

SubQuestion No : 5

Q.5 In which area was the percentage of applications continuously increasing over time but at a continuously decreasing rate?

1. Finance
2. Health
3. Marriage
4. Others

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118946

Option 1 ID : 55125173801

Option 2 ID : 55125173802

Option 3 ID : 55125173803

Option 4 ID : 55125173804

Status : Answered

Chosen Option : 3

Q.6 Match the LIST-I with LIST-II

LIST-I Institutions	LIST-II Known for
A. Nalanda	I. Medicine and Arts
B. Ujjain	II. Hinyana Buddhism
C. Takshashila	III. Mahayana Buddhism and Secular Studies
D. Vallabhi	IV. Physics and Astronomy

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118990

Option 1 ID : 55125173977

Option 2 ID : 55125173978

Option 3 ID : 55125173979

Option 4 ID : 55125173980

Status : Answered

Chosen Option : 4

Q.7 Select correct number sequences from the following:

- A. 5, 7, 13, 25, 45, 75
- B. 17, 40, 109, 224, 385
- C. 4, 11, 19, 41, 79, 169
- D. 3, 2, 0, -9, -52, -280
- E. 4, 13, 31, 67, 139, 280

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118968

Option 1 ID : 55125173889

Option 2 ID : 55125173890

Option 3 ID : 55125173891

Option 4 ID : 55125173892

Status : Answered

Chosen Option : 4

Q.8 Match the LIST-I with LIST-II

LIST-I Approach of Scale Construction	LIST-II Process Followed
A. Arbitrary approach	I. A panel evaluates the items chosen for inclusion in the instrument according to their relevance
B. Factor Scales	II. Scale is developed on adhoc basis
C. Consensus approach	III. Interrelation of items which indicates that a common factor accounts for the relationship between items
D. Cumulative Scales	IV. Chosen on the basis of their confirming to some ranking of items with ascending or descending discriminating power.

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118960

Option 1 ID : 55125173857

Option 2 ID : 55125173858

Option 3 ID : 55125173859

Option 4 ID : 55125173860

Status : Answered

Chosen Option : 2

Q.9 Arrange the steps of a research sequentially:

- A. Writing Report
- B. Data analysis
- C. Review of literature
- D. Choice of research design
- E. Sampling and Data collection

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118958

Option 1 ID : 55125173849

Option 2 ID : 55125173850

Option 3 ID : 55125173851

Option 4 ID : 55125173852

Status : Answered

Chosen Option : 3

Q.10 Which of the following Pramanas (valid means of knowledge) are accepted by Nyaya school of philosophy?

- 1. Pratyaksha and Anumana only
- 2. Anumana and Verbal Testimony (Shabda) only
- 3. Pratyaksha and Upamana only
- 4. Pratyaksha, Anumana, Verbal Testimony (Shabda) and Upamana

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118971

Option 1 ID : 55125173901

Option 2 ID : 55125173902

Option 3 ID : 55125173903

Option 4 ID : 55125173904

Status : Answered

Chosen Option : 4

Q.11 Planning teaching involves making decisions. Which of the following decision reflects this dictum?

1. Selection of the profession
2. Content selection and pedagogical methods
3. Selection of the course for admission
4. Planning to migrate abroad

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118951

Option 1 ID : 55125173821

Option 2 ID : 55125173822

Option 3 ID : 55125173823

Option 4 ID : 55125173824

Status : Answered

Chosen Option : 2

Q.12 Match the LIST-I with LIST-II

LIST-I Broken Rule	LIST-II Associated Fallacy
A. Middle term undistributed in the premises.	I. Existential Fallacy
B. Presence of two negative premises in an argument.	II. Fallacy of illicit major and minor term
C. Particular conclusion with negative premises.	III. Exclusive premises
D. Any term distributed in conclusion but undistributed in premises.	IV. Undistributed Middle

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118975

Option 1 ID : 55125173917

Option 2 ID : 55125173918

Option 3 ID : 55125173919

Option 4 ID : 55125173920

Status : Answered

Chosen Option : 1

Q13 Select characteristics of Learner Centered Approach.

- A. It is centered on the needs of learner predecided by her parents
- B. It lays emphasis on skills
- C. It lays emphasis on indirect strategies.
- D. It is dependent on the training teacher has gone through
- E. It can be used in privately managed schools only

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118954

Option 1 ID : 55125173833

Option 2 ID : 55125173834

Option 3 ID : 55125173835

Option 4 ID : 55125173836

Status : Answered

Chosen Option : 2

Q14 Which of the following are used as Social Networking Sites?

- A. Twitter
- B. Instagram
- C. LinkedIn
- D. Blackbox
- E. Snapchat

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118979

Option 1 ID : 55125173933

Option 2 ID : 55125173934

Option 3 ID : 55125173935

Option 4 ID : 55125173936

Status : Answered

Chosen Option : 4

Q15 Arrange the following steps in the process of deduction:

- A. Theory
- B. Hypothesis
- C. Data collection
- D. Revision of theory
- E. Findings

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118957

Option 1 ID : 55125173845

Option 2 ID : 55125173846

Option 3 ID : 55125173847

Option 4 ID : 55125173848

Status : Answered

Chosen Option : 4

Q16 Match the LIST-I with LIST-II

LIST-I (Concept)	LIST-II (Feature)
A. Algorithm	I. Range of frequencies over which signals are transmitted
B. Modem	II. Converts digital signals to sine waves and vice-versa
C. Bandwidth	III. Pictorial representation of a computational procedure
D. Flowchart	IV. Finite sequence to solve a problem

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118980

Option 1 ID : 55125173937

Option 2 ID : 55125173938

Option 3 ID : 55125173939

Option 4 ID : 55125173940

Status : Answered

Chosen Option : 1

Q17 Select the CORRECT statements pertaining to NEP 2020:

- A. It promotes secular and minorities education vehemently
- B. It promotes multiple entry-multiple exit in higher education
- C. It recommends that the state must spend 10 percent of GDP on education
- D. It affirms that Sanskrit has more literature than Latin and Persian
- E. It promotes private philanthropic education

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118988

Option 1 ID : 55125173969

Option 2 ID : 55125173970

Option 3 ID : 55125173971

Option 4 ID : 55125173972

Status : Answered

Chosen Option : 1

Q18 The NPE 1986 envisaged setting up of residential schools with an aim of providing excellence coupled with equity and social justice. This led to the establishment of:

- 1. Kendriya Vidyalayas
- 2. Navyug Schools
- 3. Navodaya Vidyalayas
- 4. Eklatva Residential Schools

Options 1.1

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

Question Type : MCQ

Question ID : 55125118986

Option 1 ID : 55125173961

Option 2 ID : 55125173962

Option 3 ID : 55125173963

Option 4 ID : 55125173964

Status : Answered

Chosen Option : 3

Q.19 Which of the following, taken together, make a valid syllogism

- A. Apples are not sweets.
- B. Some apples are sweets.
- C. All sweets are tasty.
- D. Some apples are not tasty.
- E. No apple is tasty.

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118974

Option 1 ID : 55125173913

Option 2 ID : 55125173914

Option 3 ID : 55125173915

Option 4 ID : 55125173916

Status : Answered

Chosen Option : 2

Q.20 Match the LIST-I with LIST-II

LIST-I Fuel Alcohol	LIST-II Characteristic
A. Methanol	I. Mixture of ethanol and gasoline
B. Ethanol	II. High energy content
C. Gasohol	III. Produced by bacterial anaerobic digestion
D. Butanol	IV. Can be derived from potato waste

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118985

Option 1 ID : 55125173957

Option 2 ID : 55125173958

Option 3 ID : 55125173959

Option 4 ID : 55125173960

Status : Answered

Chosen Option : 4

Q.21 Working of the circulatory system of the human body is shown by a teacher on screen. Such simulations have tremendous potential for instructional purpose. This aligns best with-

1. Computer aided learning
2. Activity-based learning
3. Peer-tutoring
4. Heuristic-learning

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118952

Option 1 ID : 55125173825

Option 2 ID : 55125173826

Option 3 ID : 55125173827

Option 4 ID : 55125173828

Status : Answered

Chosen Option : 1

Q.22 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	All real values of x satisfying $(4x+1) < 13$ and $(x+1) > 3$ lie in the interval	I.	(5, 6)
B.	All real values of x satisfying $1 \leq (x^2+1) < 5$ lie in the interval	II.	(3, 4)
C.	All real x satisfying $(x+7) < (3x+1) < (x+9)$ lie in interval	III.	(2, 3)
D.	All real x satisfying $5 < (4x-15) < 9$ lie in interval	IV.	(-2, 2)

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118970

Option 1 ID : 55125173897

Option 2 ID : 55125173898

Option 3 ID : 55125173899

Option 4 ID : 55125173900

Status : Answered

Chosen Option : 2

Q.23 A term drawn from theology, concerned with the theory and method of the interpretation of human action, is known as

1. Theological reasoning
2. Philosophy
3. Grounded theory
4. Hermeneutics

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118956

Option 1 ID : 55125173841

Option 2 ID : 55125173842

Option 3 ID : 55125173843

Option 4 ID : 55125173844

Status : Answered

Chosen Option : 1

Q.24 Arrange the following computers in a chronological order:

- A. The Atanasoft Berry Computer (ABC)
- B. IBM- 701
- C. The Mark I Computer
- D. UNIVAC I
- E. IBM-650

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118977

Option 1 ID : 55125173925

Option 2 ID : 55125173926

Option 3 ID : 55125173927

Option 4 ID : 55125173928

Status : Answered

Chosen Option : 3

Q.25 Which of the following are methods of control on intervening variables.

- A. Deductive manipulation
- B. Inferential manipulation
- C. Statistical manipulation
- D. Physical manipulation
- E. Selective manipulation

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118959

Option 1 ID : 55125173853

Option 2 ID : 55125173854

Option 3 ID : 55125173855

Option 4 ID : 55125173856

Status : Answered

Chosen Option : 2

Q.26 Match the LIST-I with LIST-II

LIST-I Teaching Model		LIST-II Feature	
A.	Personal Basis Model	I.	Working in a group
B.	Social Interaction Model	II.	Teacher as the main figure in class
C.	Behaviour Altering Model	III.	Memorization, practice and transfer of learning
D.	Information Development Model	IV.	Instruction based on human relations

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118955

Option 1 ID : 55125173837

Option 2 ID : 55125173838

Option 3 ID : 55125173839

Option 4 ID : 55125173840

Status : Answered

Chosen Option : 3

Q.27 Select the correct statements in context of communication models.

- A. Feedback is the transmission of receiver's reaction back to the sender
- B. Encoding is the task/process done at receiver's end
- C. Noise is anything that is added to the signal between its transmission and reception that is not intended by the source
- D. Decoding is the task/process done at sender's end
- E. Medium is the means through message is conveyed

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118964

Option 1 ID : 55125173873

Option 2 ID : 55125173874

Option 3 ID : 55125173875

Option 4 ID : 55125173876

Status : Answered

Chosen Option : 1

Q.28 Match the LIST-I with LIST-II

LIST-I Scheme/Institution	LIST-II Function
A. Rashtriya Avishkar Abhiyan	I. Identification of talented students
B. e-Pathshala	II. Assessment of learning outcomes
C. NAS	III. To promote scientific temper and innovation
D. NTSE	IV. Digital access to textbooks and resources

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118989

Option 1 ID : 55125173973

Option 2 ID : 55125173974

Option 3 ID : 55125173975

Option 4 ID : 55125173976

Status : Answered

Chosen Option : 1

Q.29 Match the LIST-I with LIST-II

LIST-I Actor		LIST-II Film	
A.	Tom Hanks	I.	Titanic
B.	Guru Dutt	II.	Forest Gump
C.	Tom Cruise	III.	Pyasa
D.	Leonard DiCaprio	IV.	Mission Impossible

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118965

Option 1 ID : 55125173877

Option 2 ID : 55125173878

Option 3 ID : 55125173879

Option 4 ID : 55125173880

Status : Answered

Chosen Option : 3

Q.30 Match the LIST-I with LIST-II

LIST-I (Letter- series)		LIST-II (Missing letter)	
A.	Q, N, K, H, E, ?	I.	C
B.	O, B, L, ?, I, D, F, E, C	II.	K
C.	Z, U, Q, N, L, ?	III.	B
D.	A, C, ?, G, I	IV.	E

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118969

Option 1 ID : 55125173893

Option 2 ID : 55125173894

Option 3 ID : 55125173895

Option 4 ID : 55125173896

Status : Answered

Chosen Option : 4

Q.31 Arrange the following industrial sources of noise in descending order as per their noise level (in dB)

- A. Steel plate riveting
- B. High speed drill
- C. Circular saw
- D. Farm tractor
- E. Milling machine

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118983

Option 1 ID : 55125173949

Option 2 ID : 55125173950

Option 3 ID : 55125173951

Option 4 ID : 55125173952

Status : Answered

Chosen Option : 3

Q.32 'A break in the chronology of a narrative in which events from the past are disclosed to reader, listener or viewer and which have a bearing on the present situation' can be easily noticed in cinema. What is this style?

- 1. Flash forward
- 2. Flash folk
- 3. Flashback
- 4. Flak

Options 1.1

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

Question Type : MCQ

Question ID : 55125118962

Option 1 ID : 55125173865

Option 2 ID : 55125173866

Option 3 ID : 55125173867

Option 4 ID : 55125173868

Status : Answered

Chosen Option : 3

Q.33 SSD stands for

1. Solid State Disk
2. Serial State Disk
3. Solid Stage Disk
4. Serial Stage Disk

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118976

Option 1 ID : 55125173921

Option 2 ID : 55125173922

Option 3 ID : 55125173923

Option 4 ID : 55125173924

Status : Answered

Chosen Option : 2

Q.34 E-learning strategies are supported by:

- A. Virtual Classroom
- B. TCP/IP
- C. Instant messaging
- D. Satellite classroom
- E. Web casting

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118978

Option 1 ID : 55125173929

Option 2 ID : 55125173930

Option 3 ID : 55125173931

Option 4 ID : 55125173932

Status : Answered

Chosen Option : 4

Q.35 The difference in sea-surface temperature between one location in the Western Indian Ocean and one location in the Eastern Indian Ocean is called:

1. Indian Ocean Dipole
2. Indian Ocean Oscillation
3. El Nino Southern Oscillation
4. Madden Julian Oscillation

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118981

Option 1 ID : 55125173941

Option 2 ID : 55125173942

Option 3 ID : 55125173943

Option 4 ID : 55125173944

Status : Answered

Chosen Option : 1

Q.36 As per Maslow's hierarchy of needs, arrange the following needs from basic to self fulfilment needs (Bottom to top)

- A. Self actualization
- B. Physiological needs
- C. Belongingness and love needs
- D. Safety needs
- E. Esteem needs

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118963

Option 1 ID : 55125173869

Option 2 ID : 55125173870

Option 3 ID : 55125173871

Option 4 ID : 55125173872

Status : Answered

Chosen Option : 3

Q.37 Arrange the following in increasing order

- A. True discount for the present worth of 5000 for a period of 4 months with rate of interest 9% per annum
- B. True discount for the present worth of 8000 for a period of 3 months with rate of interest 8% per annum
- C. True discount for the present worth of 6000 for a period of 6 months with rate of interest 6% per annum
- D. True discount for the present worth of 7000 for a period of 4 months with rate of interest 7% per annum
- E. True discount for the present worth of 9000 for a period of 6 months with rate of interest 5% per annum

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118967

Option 1 ID : 55125173885

Option 2 ID : 55125173886

Option 3 ID : 55125173887

Option 4 ID : 55125173888

Status : Answered

Chosen Option : 1

Q.38 In the first figure, which are the valid moods?

- A. AAA
- B. AEE
- C. EAE
- D. AOO
- E. EIO

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118973

Option 1 ID : 55125173909

Option 2 ID : 55125173910

Option 3 ID : 55125173911

Option 4 ID : 55125173912

Status : Answered

Chosen Option : 2

Q.39 Per and Polyfluorinated alkyl substances are called Forever Chemicals which are highly persistent. They can be found in

- A. Paper and Cardboard food packaging
- B. Textiles
- C. DDT
- D. Cosmetics
- E. Nuclear Industry waste

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118984

Option 1 ID : 55125173953

Option 2 ID : 55125173954

Option 3 ID : 55125173955

Option 4 ID : 55125173956

Status : Answered

Chosen Option : 4

Q.40 The UGC has given a 10 point scale for grading. Arrange the following grades for highest to lowest performance.

- A. F
- B. P
- C. O
- D. A
- E. Ab

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125118953

Option 1 ID : 55125173829

Option 2 ID : 55125173830

Option 3 ID : 55125173831

Option 4 ID : 55125173832

Status : Answered

Chosen Option : 2

Q.41 The ability to access, analyze, evaluate and communicate media messages is-

1. Narrative Setting
2. Propaganda
3. Media literacy
4. Media hype

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118961

Option 1 ID : 55125173861

Option 2 ID : 55125173862

Option 3 ID : 55125173863

Option 4 ID : 55125173864

Status : Answered

Chosen Option : 3

Q.42 Arrange the following in a meaningful order, from particular to general :

- A. Family
- B. Community
- C. Member
- D. Locality
- E. Country

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118972

Option 1 ID : 55125173905

Option 2 ID : 55125173906

Option 3 ID : 55125173907

Option 4 ID : 55125173908

Status : Answered

Chosen Option : 3

Q.43 Arrange the following United Nations Conferences/Conventions according to the year they were held:

- A. The Stockholm Conference
- B. The Kyoto Protocol
- C. Montreal Protocol
- D. Vienna Convention for the protection of ozone layer
- E. The Biodiversity Convention

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118982

Option 1 ID : 55125173945

Option 2 ID : 55125173946

Option 3 ID : 55125173947

Option 4 ID : 55125173948

Status : Answered

Chosen Option : 1

Q.44 Arrange the following chronologically

- A. University of Bombay, Calcutta and Madras
- B. University Grants Commission
- C. Panjab University, Lahore
- D. Banaras Hindu University
- E. University of Delhi

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118987

Option 1 ID : 55125173965

Option 2 ID : 55125173966

Option 3 ID : 55125173967

Option 4 ID : 55125173968

Status : Answered

Chosen Option : 2

Q.45 A computer costs 50,000 Rupees and printer costs 20,000 Rupees. In a sale, the price of computer is reduced by 17% and that of printer is reduced by x%. If a person purchased both the printer and the computer with a total cost of 50,000 rupees, then the value of x is-

1. 57.5
2. 52.5
3. 33
4. 66

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118966

Option 1 ID : 55125173881

Option 2 ID : 55125173882

Option 3 ID : 55125173883

Option 4 ID : 55125173884

Status : Answered

Chosen Option : 1

Comprehension:

Perhaps the best known of these sociologists is Oliver (1990), who argues that the biomedical model of disability leads to what he calls an ideology of personal tragedy which stresses the need for the individual disabled person to come to terms with 'their' problem, by struggling to cope as best they can.

Oliver calls this the personal tragedy model because it tends to describe disability as some terrible personal problem, which has ruined that person's life. He suggests that this model has now become taken for granted, achieving 'ideological hegemony' in the way that disabled people are viewed.

In place of the individualistic or personal tragedy model, Oliver argues that disability should be seen as a social problem and that it can only be understood within a wider social and economic framework, that is, within a social model.

Oliver argues that a clear distinction can be made between impairment and disability. A person may have a physical impairment of some kind, but it only becomes a disability when society organises social and economic features in such a way as to translate the impairment into a disability. For example, if the only means to enter a cinema is by using steps, then a person who has an impairment which leads them to use a wheelchair becomes disabled. However, if a ramp is provided and the ticket booth is at a lower height, and adequate spaces are provided for wheelchair users, then the person is no longer disabled. So, disability derives from organising society in such a way as to change impairment into disability.

SubQuestion No : 46

Q.46 Oliver argues that disability is a social problem because:

1. It is a divine curse to be suffered by the society.
2. Physical impairment translates into disability due to social and economic structures.
3. Individual as a part of society has gone through personal tragedy.
4. Impairment and disability are one and the same.

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118992

Option 1 ID : 55125173981

Option 2 ID : 55125173982

Option 3 ID : 55125173983

Option 4 ID : 55125173984

Status : Answered

Chosen Option : 2

Comprehension:

Perhaps the best known of these sociologists is Oliver (1990), who argues that the biomedical model of disability leads to what he calls an ideology of personal tragedy which stresses the need for the individual disabled person to come to terms with 'their' problem, by struggling to cope as best they can.

Oliver calls this the personal tragedy model because it tends to describe disability as some terrible personal problem, which has ruined that person's life. He suggests that this model has now become taken for granted, achieving 'ideological hegemony' in the way that disabled people are viewed.

In place of the individualistic or personal tragedy model, Oliver argues that disability should be seen as a social problem and that it can only be understood within a wider social and economic framework, that is, within a social model.

Oliver argues that a clear distinction can be made between impairment and disability. A person may have a physical impairment of some kind, but it only becomes a disability when society organises social and economic features in such a way as to translate the impairment into a disability. For example, if the only means to enter a cinema is by using steps, then a person who has an impairment which leads them to use a wheelchair becomes disabled. However, if a ramp is provided and the ticket booth is at a lower height, and adequate spaces are provided for wheelchair users, then the person is no longer disabled. So, disability derives from organising society in such a way as to change impairment into disability.

SubQuestion No : 47

Q.47 The clear distinction between impairment and disability is:

1. Impairment is physical whereas disability is a mental problem.
2. Impairment is personal whereas disability is social.
3. Impairment can be treated medically and disability can not be cured.
4. Impairment is inaccessibility to social spaces whereas disability is fair access to every social space.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118995

Option 1 ID : 55125173993

Option 2 ID : 55125173994

Option 3 ID : 55125173995

Option 4 ID : 55125173996

Status : Answered

Chosen Option : 4

Comprehension:

Perhaps the best known of these sociologists is Oliver (1990), who argues that the biomedical model of disability leads to what he calls an ideology of personal tragedy which stresses the need for the individual disabled person to come to terms with 'their' problem, by struggling to cope as best they can.

Oliver calls this the personal tragedy model because it tends to describe disability as some terrible personal problem, which has ruined that person's life. He suggests that this model has now become taken for granted, achieving 'ideological hegemony' in the way that disabled people are viewed.

In place of the individualistic or personal tragedy model, Oliver argues that disability should be seen as a social problem and that it can only be understood within a wider social and economic framework, that is, within a social model.

Oliver argues that a clear distinction can be made between impairment and disability. A person may have a physical impairment of some kind, but it only becomes a disability when society organises social and economic features in such a way as to translate the impairment into a disability. For example, if the only means to enter a cinema is by using steps, then a person who has an impairment which leads them to use a wheelchair becomes disabled. However, if a ramp is provided and the ticket booth is at a lower height, and adequate spaces are provided for wheelchair users, then the person is no longer disabled. So, disability derives from organising society in such a way as to change impairment into disability.

SubQuestion No : 48

Q.48 Disability can be done away by:

1. Giving adequate medical treatment to everyone.
2. Reorganizing society to facilitate access of all social space to the impaired.
3. By re-orienting disabled persons.
4. By re-orienting parents to prevent birth of disabled children.

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118994

Option 1 ID : 55125173989

Option 2 ID : 55125173990

Option 3 ID : 55125173991

Option 4 ID : 55125173992

Status : Answered

Chosen Option : 2

Comprehension:

Perhaps the best known of these sociologists is Oliver (1990), who argues that the biomedical model of disability leads to what he calls an ideology of personal tragedy which stresses the need for the individual disabled person to come to terms with 'their' problem, by struggling to cope as best they can.

Oliver calls this the personal tragedy model because it tends to describe disability as some terrible personal problem, which has ruined that person's life. He suggests that this model has now become taken for granted, achieving 'ideological hegemony' in the way that disabled people are viewed.

In place of the individualistic or personal tragedy model, Oliver argues that disability should be seen as a social problem and that it can only be understood within a wider social and economic framework, that is, within a social model.

Oliver argues that a clear distinction can be made between impairment and disability. A person may have a physical impairment of some kind, but it only becomes a disability when society organises social and economic features in such a way as to translate the impairment into a disability. For example, if the only means to enter a cinema is by using steps, then a person who has an impairment which leads them to use a wheelchair becomes disabled. However, if a ramp is provided and the ticket booth is at a lower height, and adequate spaces are provided for wheelchair users, then the person is no longer disabled. So, disability derives from organising society in such a way as to change impairment into disability.

SubQuestion No : 49

Q.49 Oliver rebuts personal tragedy model because:

1. It is an accident that makes one impaired, not a willful choice.
2. In society, disability is a taboo.
3. It sees disability as an individualistic problem that disrupts one's life.
4. It is not the willingness of God to make someone disabled.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125118993

Option 1 ID : 55125173985

Option 2 ID : 55125173986

Option 3 ID : 55125173987

Option 4 ID : 55125173988

Status : Answered

Chosen Option : 3

Comprehension:

Perhaps the best known of these sociologists is Oliver (1990), who argues that the biomedical model of disability leads to what he calls an ideology of personal tragedy which stresses the need for the individual disabled person to come to terms with 'their' problem, by struggling to cope as best they can.

Oliver calls this the personal tragedy model because it tends to describe disability as some terrible personal problem, which has ruined that person's life. He suggests that this model has now become taken for granted, achieving 'ideological hegemony' in the way that disabled people are viewed.

In place of the individualistic or personal tragedy model, Oliver argues that disability should be seen as a social problem and that it can only be understood within a wider social and economic framework, that is, within a social model.

Oliver argues that a clear distinction can be made between impairment and disability. A person may have a physical impairment of some kind, but it only becomes a disability when society organises social and economic features in such a way as to translate the impairment into a disability. For example, if the only means to enter a cinema is by using steps, then a person who has an impairment which leads them to use a wheelchair becomes disabled. However, if a ramp is provided and the ticket booth is at a lower height, and adequate spaces are provided for wheelchair users, then the person is no longer disabled. So, disability derives from organising society in such a way as to change impairment into disability.

SubQuestion No : 50

Q.50 The society organizes social and economic features in such a way that:

1. Enabled bodied are more intelligent citizens.
2. Impairment translates into quality of social adjustment of everyone.
3. Accessing social space becomes a challenge for the impaired.
4. Impaired people must be provided everything within their residence.

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125118996

Option 1 ID : 55125173997

Option 2 ID : 55125173998

Option 3 ID : 55125173999

Option 4 ID : 55125174000

Status : Answered

Chosen Option : 2

Q.51

Match List - I with List - II.

List - I

- A. Merge sort
- B. Binary search
- C. Quick sort
- D. Search in an unsorted array

List - II

- I. n^2
- II. $n \log n$
- III. n
- IV. $\log n$

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119053

Option 1 ID : 55125174225

Option 2 ID : 55125174226

Option 3 ID : 55125174227

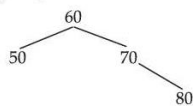
Option 4 ID : 55125174228

Status : Answered

Chosen Option : 2

Q.52

What is the maximum number of nodes that can be inserted in the following AVL tree without changing its height ?



- (1) 2
- (2) 4
- (3) 3
- (4) 5

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119057

Option 1 ID : 55125174241

Option 2 ID : 55125174242

Option 3 ID : 55125174243

Option 4 ID : 55125174244

Status : Answered

Chosen Option : 3

Q.53 Which of the following ICs has lowest power consumption?

1. ECL
2. MOS
3. TTL
4. CMOS

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119013

Option 1 ID : 55125174065

Option 2 ID : 55125174066

Option 3 ID : 55125174067

Option 4 ID : 55125174068

Status : Answered

Chosen Option : 3

Q.54 Consider the following binary codes

C ₁	00000
C ₂	01011
C ₃	10101

What is the maximum Hamming Distance value for all pairs of above mentioned codes.

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119069

Option 1 ID : 55125174289

Option 2 ID : 55125174290

Option 3 ID : 55125174291

Option 4 ID : 55125174292

Status : Answered

Chosen Option : 3

Q.55 Which of the following have true value if universe of discourse consist of all integers:

- A. $\exists n (2n = 3n)$
- B. $\forall n (n^2 \geq n)$
- C. $\forall n (2n > n)$
- D. $\exists n (n^2 = 2)$
- E. $\forall x \forall y \exists z (xy = z)$

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119003

Option 1 ID : 55125174025

Option 2 ID : 55125174026

Option 3 ID : 55125174027

Option 4 ID : 55125174028

Status : Answered

Chosen Option : 1

Q.56 Match List - I with List - II.

List - I

- A. Latency
- B. Delay
- C. Throughput
- D. Interrupt

List - II

- I. number of tasks completed in a given time period
- II. causes the current activity to be deferred
- III. time elapsed before next activity starts
- IV. time to complete a single task

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119016

Option 1 ID : 55125174077

Option 2 ID : 55125174078

Option 3 ID : 55125174079

Option 4 ID : 55125174080

Status : Answered

Chosen Option : 4

Q.57 How many solution does the equation
 $x + y + z = 11$ have, where x, y, z are non-negative integers?

1. 33
2. 66
3. 68
4. 78

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118998

Option 1 ID : 55125174005

Option 2 ID : 55125174006

Option 3 ID : 55125174007

Option 4 ID : 55125174008

Status : Answered

Chosen Option : 2

Q.58 Which of the following is not a 'concern' during the management of a software project?

1. Project/Product information
2. Product quality
3. Time
4. Money

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119048

Option 1 ID : 55125174205

Option 2 ID : 55125174206

Option 3 ID : 55125174207

Option 4 ID : 55125174208

Status : Answered

Chosen Option : 4

Q.59 Identify the incorrect statements from the following regarding the protocols used in the TCP/IP protocol suite.

- A. IP is a reliable connection less protocol.
- B. ARP is used to find the physical address of a node given its logical address
- C. ICMP is used to send notification of datagram problems to the recipient of the message.
- D. IGMP is used to facilitate simultaneous transmission of a message to a group of recipients.

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

- 1. B and D 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 : 55125119071

Option 1 ID : 55125174297

Option 2 ID : 55125174298

Option 3 ID : 55125174299

Option 4 ID : 55125174300

Status : Answered

Chosen Option : 4

Q.60 Which document outlines the functional and non-functional requirements of a software system?

- 1. SRS Document
- 2. Design Document
- 3. Test Plan
- 4. User Manual

Options 1.1

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

Question Type : MCQ

Question ID : 55125119047

Option 1 ID : 55125174201

Option 2 ID : 55125174202

Option 3 ID : 55125174203

Option 4 ID : 55125174204

Status : Answered

Chosen Option : 1

Q.61 Choose the correct order for the following sequence in the context of OSI layers (from bottom to top)

- A. Transforming the datagrams into frame for transmission
- B. Transmission of bits over communication channel
- C. Handling user interface
- D. Control and monitoring of subnet
- E. Transmission of data using either connection-oriented or connection-less protocol

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119068

Option 1 ID : 55125174285

Option 2 ID : 55125174286

Option 3 ID : 55125174287

Option 4 ID : 55125174288

Status : Answered

Chosen Option : 3

Q.62 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	long signed int	I.	% lf
B.	double	II.	% Lf
C.	long double	III.	% c
D.	unsigned character	IV.	% ld

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119025

Option 1 ID : 55125174113

Option 2 ID : 55125174114

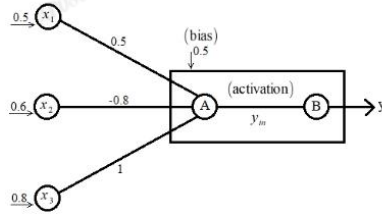
Option 3 ID : 55125174115

Option 4 ID : 55125174116

Status : Answered

Chosen Option : 1

Q.63 Consider the following neural network



What will be the net input y_{in} and final output 'y' of this neural network given that the activation function is threshold function defined as follows

$$f(x) = \begin{cases} 1 & \text{if } x \geq 1 \\ 0 & \text{if } x < 1 \end{cases}$$

1. $y_{in} = 2.03, y = 1$
2. $y_{in} = 1.53, y = 1$
3. $y_{in} = 1.07, y = 1$
4. $y_{in} = 0.57, y = 0$

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119082

Option 1 ID : 55125174341

Option 2 ID : 55125174342

Option 3 ID : 55125174343

Option 4 ID : 55125174344

Status : Answered

Chosen Option : 3

Q.64 A doctor knows that the disease Meningitis causes a patient to have a stiff neck say 70% of time. The doctor also knows some unconditional facts : the prior probability that any patient has Meningitis is 1/50,000 and the prior probability that any patient has a stiff neck is 1%. Letting s be the proposition that the patient has a stiff neck and m the proposition that the patient has meningitis, compute the probability $P(m/s)$ using Bayes' rule.

- (1) .014
- (2) .0014
- (3) .14
- (4) .00014

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119083

Option 1 ID : 55125174345

Option 2 ID : 55125174346

Option 3 ID : 55125174347

Option 4 ID : 55125174348

Status : Answered

Chosen Option : 2

Q.65 In the worst case, the smallest number of comparisons required by any sorting algorithm, which does only binary comparisons is

1. $\lceil \log n \rceil$
2. $\lceil \log n! \rceil$
3. $\lceil \log n(n-1) \rceil$
4. 2^n

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119055

Option 1 ID : 55125174233

Option 2 ID : 55125174234

Option 3 ID : 55125174235

Option 4 ID : 55125174236

Status : Answered

Chosen Option : 3

Q.66 The average memory access time is 130 ns and average time of cache memory is 100 ns. With 75% hit ratio, The average time to access a word is?

1. 130 ns
2. 150 ns
3. 132.5 ns
4. 107.5 ns

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119012

Option 1 ID : 55125174061

Option 2 ID : 55125174062

Option 3 ID : 55125174063

Option 4 ID : 55125174064

Status : Answered

Chosen Option : 3

Q.67 Which of the following is not a part of the general activation record of a procedure?

1. Local data
2. Global data
3. Access link
4. Temporaries

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119045

Option 1 ID : 55125174193

Option 2 ID : 55125174194

Option 3 ID : 55125174195

Option 4 ID : 55125174196

Status : Answered

Chosen Option : 4

Q.68 Match the LIST-I with LIST-II

LIST-I Language	LIST-II Type of Language
A. $L_1 = \{a^n b^m \mid n, m \geq 0\}$	I. Unrestricted
B. $L_2 = \{a^n b^m \mid (n = m) \geq 0\}$	II. Context Sensitive
C. $L_3 = \{a^n b^n c^n d^n e^n \mid n \geq 1\}$	III. Regular
D. $L_4 = \{a^n b^n c^m d^n e^2 \mid n, m \geq 0\}$	IV. Context Free

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119066

Option 1 ID : 55125174277

Option 2 ID : 55125174278

Option 3 ID : 55125174279

Option 4 ID : 55125174280

Status : Answered

Chosen Option : 2

Q.69 Which of the following are correct about constructors in C++ ?

- A. They have the same name as the class.
- B. They can return values.
- C. They are called automatically when an object is created.
- D. They can be overloaded.
- E. They can be inherited.

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119026

Option 1 ID : 55125174117

Option 2 ID : 55125174118

Option 3 ID : 55125174119

Option 4 ID : 55125174120

Status : Answered

Chosen Option : 3

Q.70 A problem of size n requires n^2 bit operations. What is the largest size instance that can be solved in 1 second, if each bit operation is carried out in 10^{-9} second?

1. 10^9
2. 3.16×10^4
3. 3.96×10^7
4. 2^{10^9}

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119006

Option 1 ID : 55125174037

Option 2 ID : 55125174038

Option 3 ID : 55125174039

Option 4 ID : 55125174040

Status : Answered

Chosen Option : 2

Q.71 Simplify the following Boolean expression using 4-variables K-map.
 $F(A, B, C, D) = \sum m(3, 6, 7, 11, 12, 13, 14, 15)$

- (1) $\overline{A}\overline{B} + \overline{B}C + \overline{C}\overline{D}$
- (2) $\overline{A}B + C\overline{D} + A\overline{B}$
- (3) $AB + BC + CD$
- (4) $CD + A\overline{C} + BD$

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119001

Option 1 ID : 55125174017

Option 2 ID : 55125174018

Option 3 ID : 55125174019

Option 4 ID : 55125174020

Status : Answered

Chosen Option : 2

Q.72 Arrange the following data types in non-decreasing order according to the length of their representation in C++.

- A. char
- B. int
- C. float
- D. double

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119027

Option 1 ID : 55125174121

Option 2 ID : 55125174122

Option 3 ID : 55125174123

Option 4 ID : 55125174124

Status : Answered

Chosen Option : 2

Q.73 If $f(n) = \theta(g(n))$ and $g(n) = O(h(n))$, then which of the following is **true** ?

- (1) $f(n) = O(h(n))$
- (2) $f(n) = \theta(h(n))$
- (3) $h(n) = O(f(n))$
- (4) $h(n) = \theta(f(n))$

Options 1.1

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

Question Type : MCQ

Question ID : 55125119050

Option 1 ID : 55125174213

Option 2 ID : 55125174214

Option 3 ID : 55125174215

Option 4 ID : 55125174216

Status : Answered

Chosen Option : 2

Q.74 For the relation schema $r(M, Y, P, MP, C)$ and set of functional dependencies $F = \{M \rightarrow MP, \{M, Y\} \rightarrow P, MP \rightarrow C\}$, which of the following is the key?

1. M
2. $\{M, Y\}$
3. $\{M, C\}$
4. MP

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119034

Option 1 ID : 55125174149

Option 2 ID : 55125174150

Option 3 ID : 55125174151

Option 4 ID : 55125174152

Status : Answered

Chosen Option : 3

Q.75 Match the LIST-I with LIST-II

LIST-I (Process model)		LIST-II (Characteristics)	
A.	Classical Waterfall Model	I.	Risk Analysis
B.	Prototype Model	II.	Large Problem with Incremental delivery
C.	Evolutionary Model	III.	Clear Requirements
D.	Spiral Model	IV.	Requirements are not well understood

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119046

Option 1 ID : 55125174197

Option 2 ID : 55125174198

Option 3 ID : 55125174199

Option 4 ID : 55125174200

Status : Answered

Chosen Option : 1

Q.76 Which of the following would be the value of z for the C program code?

x = 16;

y = 4;

z = x >> y;

1. 5

2. 4

3. 2

4. 1

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119024

Option 1 ID : 55125174109

Option 2 ID : 55125174110

Option 3 ID : 55125174111

Option 4 ID : 55125174112

Status : Answered

Chosen Option : 4

Q.77 Match the LIST-I with LIST-II

LIST-I SMTP Response Code	LIST-II Description
A. 214	I. Service Ready
B. 421	II. Transaction Failed
C. 220	III. Help message
D. 554	IV. Service Not Available

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

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

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

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119070

Option 1 ID : 55125174293

Option 2 ID : 55125174294

Option 3 ID : 55125174295

Option 4 ID : 55125174296

Status : Answered

Chosen Option : 1

- Q.78 Which of the following is memory interleaving ?
- (1) Layering of memory stacks one above the other
 - (2) Hierarchy of different type of memories
 - (3) Division of memory into multiple modules, allowing the CPU to access multiple modules simultaneously
 - (4) Combining different type of memories

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119017

Option 1 ID : 55125174081

Option 2 ID : 55125174082

Option 3 ID : 55125174083

Option 4 ID : 55125174084

Status : Answered

Chosen Option : 2

- Q.79 In Rate Monotonic scheduling, if a task has a period of 80 ms and an execution time of 55 ms, then its processor utilization and task rate will be

1. 0.69, 12.5 Hz
2. 0.58, 12.3 Hz
3. 0.48, 11.4 Hz
4. 0.38, 10.5 Hz

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119038

Option 1 ID : 55125174165

Option 2 ID : 55125174166

Option 3 ID : 55125174167

Option 4 ID : 55125174168

Status : Answered

Chosen Option : 3

Q.80 Match the LIST-I with LIST-II
Each of the following relations is defined on set $\{1, 2, 3, 4\}$. Match the relation types.

LIST-I Relation	LIST-II Relation type
A. $\{(2, 2), (2, 3), (2, 4), (3, 2), (3, 3), (3, 4)\}$	I. Anti symmetric
B. $\{(2, 4), (4, 2)\}$	II. Only transitive
C. $\{(1, 2), (2, 3), (3, 4)\}$	III. Only symmetric
D. $\{(1, 3), (1, 4), (2, 3), (2, 4), (3, 1), (3, 4)\}$	IV. neither symmetric, nor transitive

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119007

Option 1 ID : 55125174041

Option 2 ID : 55125174042

Option 3 ID : 55125174043

Option 4 ID : 55125174044

Status : Answered

Chosen Option : 1

Q.81 The number of leaf nodes in a full 4-ary rooted tree of n nodes is

1. $n/2$
2. $(2n - 1) / 4$
3. $(n + 1) / 4$
4. $(3n + 1) / 4$

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119056

Option 1 ID : 55125174237

Option 2 ID : 55125174238

Option 3 ID : 55125174239

Option 4 ID : 55125174240

Status : Answered

Chosen Option : 3

Q.82 Which of the following statements maybe false for a decision problem $X \in NP$

1. X can be solved in nondeterministic polynomial time
2. X can be solved in exponential time
3. X can be solved in polynomial space
4. X can be solved in deterministic polynomial time

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119061

Option 1 ID : 55125174257

Option 2 ID : 55125174258

Option 3 ID : 55125174259

Option 4 ID : 55125174260

Status : Answered

Chosen Option : 3

Q.83 Match the LIST-I with LIST-II

LIST-I	LIST-II
A. Disk Scheduling	I. Round Robin
B. Batch Processing	II. SCAN
C. Time Sharing	III. LIFO
D. Interrupt Processing	IV. FIFO

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119044

Option 1 ID : 55125174189

Option 2 ID : 55125174190

Option 3 ID : 55125174191

Option 4 ID : 55125174192

Status : Answered

Chosen Option : 2

Q.84 How many edges are there in a graph with 10 vertices each of degree six?

1. 60
2. 15
3. 20
4. 30

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119004

Option 1 ID : 55125174029

Option 2 ID : 55125174030

Option 3 ID : 55125174031

Option 4 ID : 55125174032

Status : Answered

Chosen Option : 3

Q.85 Arrange the following in ascending order on the basis of number of distinct prime numbers in their prime factorization.

- A. 729
- B. 1001
- C. 1111
- D. 420

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118999

Option 1 ID : 55125174009

Option 2 ID : 55125174010

Option 3 ID : 55125174011

Option 4 ID : 55125174012

Status : Answered

Chosen Option : 3

Q.86 Which of the following technologies enables the creation of virtual servers in cloud computing environment?

1. DNS Server
2. Hypervisor
3. Firewall
4. Load Balancer

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119081

Option 1 ID : 55125174337

Option 2 ID : 55125174338

Option 3 ID : 55125174339

Option 4 ID : 55125174340

Status : Answered

Chosen Option : 1

Q.87 Which topology requires a central controller or a hub?

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119079

Option 1 ID : 55125174329

Option 2 ID : 55125174330

Option 3 ID : 55125174331

Option 4 ID : 55125174332

Status : Answered

Chosen Option : 3

Q.88 If L_1 is a regular language and L_2 is a context free language, which of the following statement is correct ?

- (1) Any subset of $L_1 \cup L_2$ is context free.
- (2) $L_1 \cap L_2$ is a context free language.
- (3) $L_1 \cap L_2$ is a regular language.
- (4) $L_1 \cap L_2$ is accepted by a deterministic push down automaton.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119063

Option 1 ID : 55125174265

Option 2 ID : 55125174266

Option 3 ID : 55125174267

Option 4 ID : 55125174268

Status : Answered

Chosen Option : 4

Q.89 Which of the following additional properties is supposed to be satisfied by a group $(G, *)$ to be an abelian group ?

- (1) Commutative
- (2) Identity
- (3) Inverse
- (4) Associativity

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119009

Option 1 ID : 55125174049

Option 2 ID : 55125174050

Option 3 ID : 55125174051

Option 4 ID : 55125174052

Status : Answered

Chosen Option : 3

Q.90 Suppose $P(\cdot)$ is used for power set and $\emptyset$ is usual notation of empty set. Arrange following on the basis of their cardinality in non-decreasing order:

- A. $P(\{a, b, \{a, b\}\})$
- B. $P(\{\emptyset, a, \{a\}, \{\{a\}\}\})$
- C. $P(P(\Phi))$
- D. $P(P(\{a\}))$
- E. $P(\{\{a, b\}, c\})$

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119008

Option 1 ID : 55125174045

Option 2 ID : 55125174046

Option 3 ID : 55125174047

Option 4 ID : 55125174048

Status : Answered

Chosen Option : 2

Q.91 Which of the following relational algebraic expression is equivalent to the SQL query SELECT X FROM B WHERE Y ?

- (1) $\sigma_y(\pi_x(B))$
- (2) $\pi_y(\sigma_x(B))$
- (3) $\sigma_x(\pi_y(B))$
- (4) $\pi_x(\sigma_y(B))$

Options 1.1

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

Question Type : MCQ

Question ID : 55125119030

Option 1 ID : 55125174133

Option 2 ID : 55125174134

Option 3 ID : 55125174135

Option 4 ID : 55125174136

Status : Answered

Chosen Option : 1

Q.92 Given the functions:

Predecessor function : $\text{Pred}(x) = x - 1$

and $T(x, y+1) = \text{pred}(T(x, y)), T(x, 0) = x$.

Which of the following operations is a candidate for T?

1. Subtraction Operation
2. Addition Operation
3. Multiplication Operation
4. Division Operation

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119064

Option 1 ID : 55125174269

Option 2 ID : 55125174270

Option 3 ID : 55125174271

Option 4 ID : 55125174272

Status : Answered

Chosen Option : 3

Q.93 A safe expression in relational calculus is one that is guaranteed to yield

1. Finite number of tuples
2. Finite number of attributes
3. Finite number of null values
4. Finite number of indices

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119031

Option 1 ID : 55125174137

Option 2 ID : 55125174138

Option 3 ID : 55125174139

Option 4 ID : 55125174140

Status : Answered

Chosen Option : 2

Q.94 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Data link layer	I.	Encryption
B.	Network layer	II.	Connection Control
C.	Transport layer	III.	Routing
D.	Presentation layer	IV.	Framing

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119073

Option 1 ID : 55125174305

Option 2 ID : 55125174306

Option 3 ID : 55125174307

Option 4 ID : 55125174308

Status : Answered

Chosen Option : 4

Q.95

Arrange the following in terms of their capacity from smallest to largest :

- A. L3 Cache
- B. L1 Cache
- C. CPU Register
- D. L2 Cache

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119020

Option 1 ID : 55125174093

Option 2 ID : 55125174094

Option 3 ID : 55125174095

Option 4 ID : 55125174096

Status : Answered

Chosen Option : 2

Q.96 Which of the following deals with the interaction between computers and humans using the natural language.

1. PROLOG
2. ELIZA
3. NLP
4. LISP

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119085

Option 1 ID : 55125174353

Option 2 ID : 55125174354

Option 3 ID : 55125174355

Option 4 ID : 55125174356

Status : Answered

Chosen Option : 3

Q.97 A binary search tree is obtained by inserting the words "Mathematics", "Physics", "Geography", "Zoology", "Metrology", "Geology", "Psychology" and "Chemistry" in order. Words are compared by dictionary order. Arrange the following words in increasing order of their level in the tree.

- A. Mathematics
- B. Zoology
- C. Psychology
- D. Physics

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119054

Option 1 ID : 55125174229

Option 2 ID : 55125174230

Option 3 ID : 55125174231

Option 4 ID : 55125174232

Status : Answered

Chosen Option : 1

Q.98 Match the **LIST-I** with **LIST-II**
Match the equivalent propositions in List-I and List-II

LIST-I		LIST-II	
A.	$P \rightarrow (Q \rightarrow P)$	I.	$(P \vee Q) \wedge \neg (P \wedge Q)$
B.	$P \rightarrow (Q \vee R)$	II.	$(P \vee R) \rightarrow Q$
C.	$(P \rightarrow Q) \wedge (R \rightarrow Q)$	III.	$(P \rightarrow Q) \vee (P \rightarrow R)$
D.	$\neg (P \rightleftharpoons Q)$	IV.	$\neg P \rightarrow (P \rightarrow Q)$

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119000

Option 1 ID : 55125174013

Option 2 ID : 55125174014

Option 3 ID : 55125174015

Option 4 ID : 55125174016

Status : Answered

Chosen Option : 4

Q.99 Arrange the following families of languages from specialization to generalization, defined over alphabet Σ :

- A. Family of all regular languages.
- B. Family of all Turing acceptable languages.
- C. Family of all Turing decidable languages.
- D. Family of all context free languages.

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119062

Option 1 ID : 55125174261

Option 2 ID : 55125174262

Option 3 ID : 55125174263

Option 4 ID : 55125174264

Status : Answered

Chosen Option : 2

Q.100 What is the maximum bit rate of a noiseless channel with a bandwidth of 2KHz, transmitting a signal with 8 levels

1. 12000 bps
2. 16000 bps
3. 4000 bps
4. 32000 bps

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119077

Option 1 ID : 55125174321

Option 2 ID : 55125174322

Option 3 ID : 55125174323

Option 4 ID : 55125174324

Status : Answered

Chosen Option : 2

Q.101 In open addressing, how are collisions typically resolved ?

- (1) By probing and finding the next available slot in the table
- (2) By creating a linked list at the point of collision
- (3) By rehashing the entire table
- (4) By storing the colliding elements in a separate array

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119041

Option 1 ID : 55125174177

Option 2 ID : 55125174178

Option 3 ID : 55125174179

Option 4 ID : 55125174180

Status : Answered

Chosen Option : 1

Q102 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Commutative law	I.	$P \wedge (Q \vee R) \equiv (P \wedge Q) \vee (P \wedge R)$
B.	Distributive law	II.	$P \wedge (P \vee Q) \equiv P$
C.	Demorgan law	III.	$P \wedge Q \equiv Q \wedge P$
D.	Adsorption law	IV.	$\neg(P \vee Q) \equiv \neg P \wedge \neg Q$

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119084

Option 1 ID : 55125174349

Option 2 ID : 55125174350

Option 3 ID : 55125174351

Option 4 ID : 55125174352

Status : Answered

Chosen Option : 2

Q103 Let $\langle H_1, * \rangle$ and $\langle H_2, * \rangle$ be subgroups of group $\langle G, * \rangle$. Which of the following is False?

1. $H_1 \cdot H_2 = \{h_1 * h_2 : h_1 \in H_1 \text{ and } h_2 \in H_1\}$ is a subgroup.
2. $H_1 \cdot H_2 = \{h_1 * h_2 : h_1 \in H_1 \text{ and } h_2 \in H_1\}$ is a normal subgroup given that H_1 and H_2 are normal subgroups.
3. $\langle H_1 \cap H_2, * \rangle$ is a subgroup.
4. $\langle H_1 \cap H_2, * \rangle$ is a subgroup.

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125118997

Option 1 ID : 55125174001

Option 2 ID : 55125174002

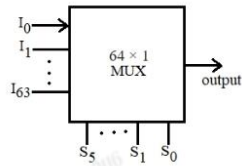
Option 3 ID : 55125174003

Option 4 ID : 55125174004

Status : Answered

Chosen Option : 3

Q104 The combination of selection lines for sending the input I_{14} to output in the following multiplexer is?



1. 001111
2. 110000
3. 111100
4. 001110

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119014

Option 1 ID : 55125174069

Option 2 ID : 55125174070

Option 3 ID : 55125174071

Option 4 ID : 55125174072

Status : Answered

Chosen Option : 3

Q105

A tree is :

- A. a circuitless connected graph
- B. a connected graph of 'n' vertices with $(n-1)$ edges
- C. a circuitless graph of 'n' vertices with $(n-1)$ edges
- D. a minimally connected graph

Choose the **correct** 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 and B only

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119051

Option 1 ID : 55125174217

Option 2 ID : 55125174218

Option 3 ID : 55125174219

Option 4 ID : 55125174220

Status : Answered

Chosen Option : 3

Q106 Consider the following List-I and List-II in context of graph & model.

LIST-I		LIST-II	
A.	Planar Graph	I.	Probabilistic Model
B.	Bipartite Graph	II.	Deterministic Model
C.	PERT	III.	4 - Colorable
D.	CPM (Critical Path Method)	IV.	2 - Colorable

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119005

Option 1 ID : 55125174033

Option 2 ID : 55125174034

Option 3 ID : 55125174035

Option 4 ID : 55125174036

Status : Answered

Chosen Option : 2

Q107 The one way propagation delay for a single bit of information (travelling at the speed of light i.e., 3×10^8 meters per second) over a fiber optic cable from point A to point B, 12000 kilometers apart would be :

- (1) 20 ms
- (2) 5 ms
- (3) 50 ms
- (4) 40 ms

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119074

Option 1 ID : 55125174309

Option 2 ID : 55125174310

Option 3 ID : 55125174311

Option 4 ID : 55125174312

Status : Answered

Chosen Option : 1

Q108 For the reference string: (given that number of frames is 3)
7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1
for the optimal page replacement algorithm, which of the following will represent the hit ratio?

1. 11/20
2. 10/20
3. 9/20
4. 12/20

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 551251f9040

Option 1 ID : 55125174173

Option 2 ID : 55125174174

Option 3 ID : 55125174175

Option 4 ID : 55125174176

Status : Answered

Chosen Option : 2

Q109 Which of the following is not an interprocessor communication mechanism in UNIX?

1. Pipes
2. Messages
3. Shared memory
4. Semaphore

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 551251f9043

Option 1 ID : 55125174185

Option 2 ID : 55125174186

Option 3 ID : 55125174187

Option 4 ID : 55125174188

Status : Answered

Chosen Option : 4

Q.II0 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	FDM	I.	has four possible Minterms
B.	Digital Circuits	II.	Frequency Division Multiplexing
C.	A Two-Variable function	III.	Universal flip-flop
D.	J-K flip flop	IV.	Combinational or Sequential

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119018

Option 1 ID : 55125174085

Option 2 ID : 55125174086

Option 3 ID : 55125174087

Option 4 ID : 55125174088

Status : Answered

Chosen Option : 2

Q.III The problem(s) in piggybacking acknowledgement frames is :

- A. There is no need to send separate acknowledgement frames
- B. It requires more bandwidth
- C. To ascertain, how long the data link layer must wait for a packet onto which the acknowledgement is attached
- D. Numbers of acknowledgement frames decrease

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119075

Option 1 ID : 55125174313

Option 2 ID : 55125174314

Option 3 ID : 55125174315

Option 4 ID : 55125174316

Status : Answered

Chosen Option : 3

Q112 The number of vertices of odd degree in any graph of 'n' vertices with 'e' edges is :

- (1) odd
- (2) even
- (3) $(n - e)$
- (4) prime

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119060

Option 1 ID : 55125174253

Option 2 ID : 55125174254

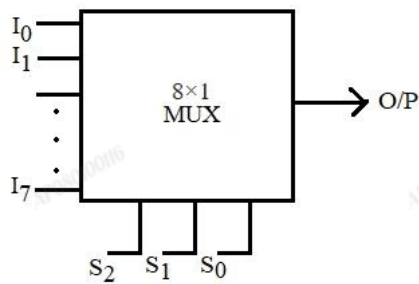
Option 3 ID : 55125174255

Option 4 ID : 55125174256

Status : Answered

Chosen Option : 2

Q113 For sending input I_6 on the output line of a 8×1 multiplexer,



Which of the following will represent the combination of selection lines?

1. 001
2. 100
3. 110
4. 111

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119015

Option 1 ID : 55125174073

Option 2 ID : 55125174074

Option 3 ID : 55125174075

Option 4 ID : 55125174076

Status : Answered

Chosen Option : 3

Q.114 What is the height of the binary search tree obtained by inserting the numbers 40, 60, 50, 37, 52, 15, 8, 22 in the given order

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119058

Option 1 ID : 55125174245

Option 2 ID : 55125174246

Option 3 ID : 55125174247

Option 4 ID : 55125174248

Status : Answered

Chosen Option : 2

Q.115 Match the LIST-I with LIST-II

LIST-I Life Cycle Model	LIST-II Description
A. Waterfall Model	I. Interactive collaboration, customer feedback, rapid releases
B. Agile Methodology	II. Automatic testing, frequent integration, main branch
C. Test-driven Development (TDD)	III. Sequential, fixed steps from requirement to maintenance
D. Continual Integration (CI)	IV. Write tests before code implementation

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119049

Option 1 ID : 55125174209

Option 2 ID : 55125174210

Option 3 ID : 55125174211

Option 4 ID : 55125174212

Status : Answered

Chosen Option : 2

Q.116

- Let $R = \{(1, 2), (3, 4), (2, 2)\}$ and $S = \{(4, 2), (2, 5), (3, 1), (1, 3)\}$ be two relations. The composite relation $R \circ S$ of R and S is :
- (1) $\{(4, 2), (3, 2), (2, 5)\}$
 - (2) $\{(1, 5), (3, 2), (2, 5)\}$
 - (3) $\{(1, 3), (3, 1), (2, 5)\}$
 - (4) $\{(2, 5), (3, 1), (2, 3), (3, 3)\}$

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119010

Option 1 ID : 55125174053

Option 2 ID : 55125174054

Option 3 ID : 55125174055

Option 4 ID : 55125174056

Status : Answered

Chosen Option : 3

Q.117

Choose the right sequence of stages for data transmission using CSMA/CD.

- A. If the channel is clear, the sender sends the data.
- B. The sender senses the channel for activity.
- C. The sender waits for a random back off time before retransmitting.
- D. Collision detection occurs if two devices transmit at the same time.

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119078

Option 1 ID : 55125174325

Option 2 ID : 55125174326

Option 3 ID : 55125174327

Option 4 ID : 55125174328

Status : Answered

Chosen Option : 1

Q.118

Which of the following is/are true for UDP protocol ?

- A. It is called Uniform Data Protocol
- B. It is called User Datagram Protocol
- C. It belongs to Transport Layer
- D. It belongs to Network Layer

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119076

Option 1 ID : 55125174317

Option 2 ID : 55125174318

Option 3 ID : 55125174319

Option 4 ID : 55125174320

Status : Answered

Chosen Option : 2

Q.119

Which of the following statements is incorrect ?

- (1) Given a context free grammar G and a string x, an algorithm can be designed to decide whether $x \in L(G)$ in polynomial time.
- (2) Given a context free language L, its complement is also context free.
- (3) The language $\{a^n b^m c^p : m, n, p \geq 0, m \neq n \text{ or } m \neq p\}$ is not deterministic context free.
- (4) Class of deterministic context free languages is closed under intersection.

Options 1.1

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

Question Type : MCQ

Question ID : 55125119067

Option 1 ID : 55125174281

Option 2 ID : 55125174282

Option 3 ID : 55125174283

Option 4 ID : 55125174284

Status : Answered

Chosen Option : 3

Q120 Out of 32 people, 30 people save paper and 14 people save plastic bottles. What is the total number of people who save both paper and plastic bottles? Assume all people save either paper or plastic bottles or both paper and plastic bottles,

1. 12
2. 14
3. 16
4. 18

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119002

Option 1 ID : 55125174021

Option 2 ID : 55125174022

Option 3 ID : 55125174023

Option 4 ID : 55125174024

Status : Answered

Chosen Option : 1

Q121 In order to define the relationship between two entity sets, which of the following operations can be used?

1. Concatenation
2. Adding
3. Cartesian product
4. Union

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119035

Option 1 ID : 55125174153

Option 2 ID : 55125174154

Option 3 ID : 55125174155

Option 4 ID : 55125174156

Status : Answered

Chosen Option : 3

Q122 Consider a linear program $\{\max c^T x | Ax \leq b\}$. Which of the following statements is true ?

- (1) the dual program is $\{\min b^T y | A^T y \leq c, y \geq 0\}$
- (2) the dual program is $\{\min b^T y | A^T y \geq c, y \geq 0\}$
- (3) the dual program is $\{\min b^T y | A^T y = c, y \geq 0\}$
- (4) the dual program is $\{\max b^T y | A^T y = c\}$

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119011

Option 1 ID : 55125174057

Option 2 ID : 55125174058

Option 3 ID : 55125174059

Option 4 ID : 55125174060

Status : Answered

Chosen Option : 4

Q123

Match List - I with List - II.

List - I	List - II
A. SMTP	I. Network layer
B. UDP	II. Transport layer
C. Ethernet	III. Application layer
D. IP	IV. Data Link layer

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119080

Option 1 ID : 55125174333

Option 2 ID : 55125174334

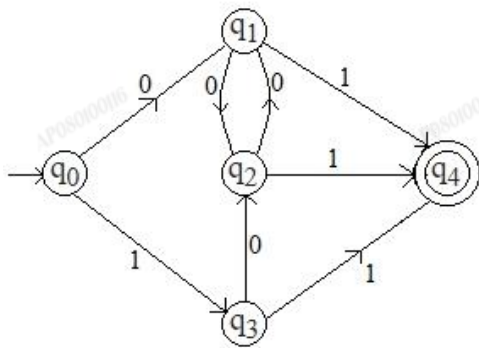
Option 3 ID : 55125174335

Option 4 ID : 55125174336

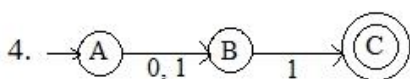
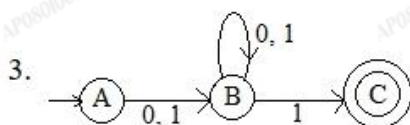
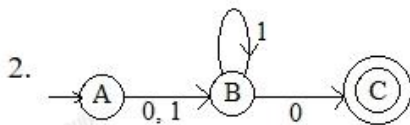
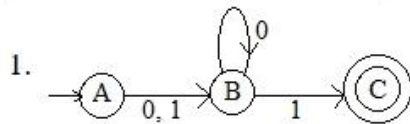
Status : Answered

Chosen Option : 3

Q124 The minimum state of DFA of the following would be the



following:



Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119065

Option 1 ID : 55125174273

Option 2 ID : 55125174274

Option 3 ID : 55125174275

Option 4 ID : 55125174276

Status : Answered

Chosen Option : 1

Q125

In disk scheduling example, suppose the disk tracks are numbered from 0 to 49. Head is presently positioned at track 15 and requests for tracks 4, 40, 11, 35, 7 and 14 have arrived (in that order). It takes 1 ms to travel from one track to the next adjacent track. Following disk scheduling algorithms are to be executed and total time traversed is to be recorded in ms in ascending order (assume arm-movement toward high numbered request first, wherever needed)

- A. FCFS
- B. LOOK
- C. SSTF
- D. SCAN

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119039

Option 1 ID : 55125174169

Option 2 ID : 55125174170

Option 3 ID : 55125174171

Option 4 ID : 55125174172

Status : Answered

Chosen Option : 2

Q126 Match the LIST-I with LIST-II

LIST-I Data structure	LIST-II Characteristics
A. Stack	I. First-In-First-Out (FIFO) order
B. Queue	II. Last-In-First-Out (LIFO) order
C. Linked list	III. Nodes with two children ordered
D. Binary search tree	IV. Dynamic size, nodes linked sequentially

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119059

Option 1 ID : 55125174249

Option 2 ID : 55125174250

Option 3 ID : 55125174251

Option 4 ID : 55125174252

Status : Answered

Chosen Option : 2

Q127 The term "double buffered" is used in which of the following:

1. Synchronous Communication Interface
2. Asynchronous Communication Interface
3. Addressing Mode
4. Serial Communication

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119021

Option 1 ID : 55125174097

Option 2 ID : 55125174098

Option 3 ID : 55125174099

Option 4 ID : 55125174100

Status : Answered

Chosen Option : 2

Q128 Following is not the feature/characteristics of Linked-List allocation of Files in a File system :

- (1) No space is lost in this allocation to disk fragmentation (except for internal fragmentation in the last block)
- (2) Reading of files or accessing them in Random access is very fast
- (3) Amount of data stored in a block is not in powers of 2 as pointer takes few bytes
- (4) The disadvantages of Linked-List allocation can be overcome by using Table in main memory called FAT

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119032

Option 1 ID : 55125174141

Option 2 ID : 55125174142

Option 3 ID : 55125174143

Option 4 ID : 55125174144

Status : Answered

Chosen Option : 2

Q129 Match List - I with List - II.

- | List - I | List - II |
|--------------|--|
| A. Macros | I. Converts high level code to object (Machine) code |
| B. Assembler | II. Used for code Expansion |
| C. Loader | III. Used to translate assembly language code to object code |
| D. Compiler | IV. Used to allocate memory and relocate program in memory |

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119042

Option 1 ID : 55125174181

Option 2 ID : 55125174182

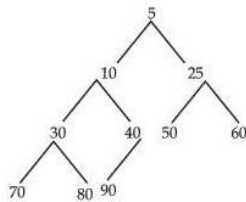
Option 3 ID : 55125174183

Option 4 ID : 55125174184

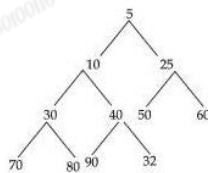
Status : Answered

Chosen Option : 3

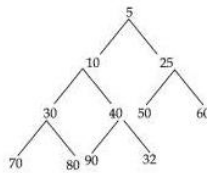
Q130 How will the following min-heap appear on inserting the key 32 ?



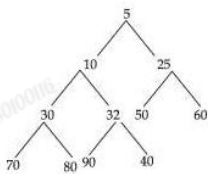
(1)



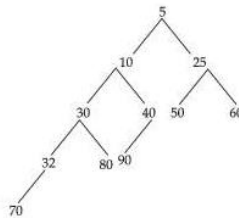
(2)



(3)



(4)



Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119052

Option 1 ID : 55125174221

Option 2 ID : 55125174222

Option 3 ID : 55125174223

Option 4 ID : 55125174224

Status : Answered

Chosen Option : 3

Q131 Arrange the following in the correct order in the context of OSI model (from bottom to top)

- A. Network layer
- B. Physical layer
- C. Presentation layer
- D. Data link layer
- E. Application layer

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

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

Options 1.1

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

Question Type : MCQ

Question ID : 55125119072

Option 1 ID : 55125174301

Option 2 ID : 55125174302

Option 3 ID : 55125174303

Option 4 ID : 55125174304

Status : Answered

Chosen Option : 3

Q132 Classifying email as spam, labeling web pages based on their context, voice recognition are the example of which of the following?

- 1. Reinforcement learning
- 2. Shortest Path Algorithm
- 3. Supervised learning
- 4. Unsupervised learning

Options 1.1

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

Question Type : MCQ

Question ID : 55125119086

Option 1 ID : 55125174357

Option 2 ID : 55125174358

Option 3 ID : 55125174359

Option 4 ID : 55125174360

Status : Answered

Chosen Option : 3

Q133 What will be the output of the following program

```
#include<stdio.h>

int main ()

{   int i;

    for (i = 0; i++<10;)

        printf ("%d", i++);

    return 0;

}
```

1. 0 1 2 3 4 5 6 7 8 9
2. 1 2 3 4 5 6 7 8
3. 1 3 5 7 9
4. 2 4 6 8

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119023

Option 1 ID : 55125174105

Option 2 ID : 55125174106

Option 3 ID : 55125174107

Option 4 ID : 55125174108

Status : Answered

Chosen Option : 1

Q134 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Pivot point	I.	Reflection
B.	Fixed point	II.	Shear
C.	Mirror image	III.	Rotation
D.	Distortion	IV.	Scaling

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119028

Option 1 ID : 55125174125

Option 2 ID : 55125174126

Option 3 ID : 55125174127

Option 4 ID : 55125174128

Status : Answered

Chosen Option : 1

Q135 Which of the following are true?

- A. A database may have only one primary key
- B. Every key is a candidate key
- C. There can be multiple candidate keys
- D. There can be more than one super keys
- E. Every candidate key is a primary key.

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119033

Option 1 ID : 55125174145

Option 2 ID : 55125174146

Option 3 ID : 55125174147

Option 4 ID : 55125174148

Status : Answered

Chosen Option : 1

Q136 The number of pixel column divided by the number of scan lines that can be displayed by the system, is called

1. Pixmap
2. Bitmap
3. Aspect ratio
4. Depth

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119029

Option 1 ID : 55125174129

Option 2 ID : 55125174130

Option 3 ID : 55125174131

Option 4 ID : 55125174132

Status : Answered

Chosen Option : 3

Q137 What does "Amdahl's Law" describe in the context of parallel processing ?

- (1) Maximum speedup achievable, considering serial and parallel portions of a program
- (2) The efficiency of message passing in a distributed memory system
- (3) Computational efficiency of a parallel algorithm
- (4) The reliability of a fault tolerant system

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119019

Option 1 ID : 55125174089

Option 2 ID : 55125174090

Option 3 ID : 55125174091

Option 4 ID : 55125174092

Status : Answered

Chosen Option : 3

Q138 What is the correct sequence of database design process?

- A. Create conceptual schema
- B. Data model mapping
- C. Requirements collection and analysis
- D. Physical design

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

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

Options 1.1

2.2

3.3

4.4

Question Type : MCQ

Question ID : 55125119036

Option 1 ID : 55125174157

Option 2 ID : 55125174158

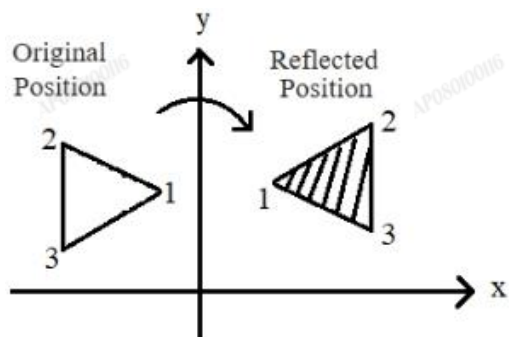
Option 3 ID : 55125174159

Option 4 ID : 55125174160

Status : Answered

Chosen Option : 4

Q139



The above figure shows:

- A. Reflection of object about x axis.
- B. Reflection of object about y axis.
- C. Reflection of object about $x = 0$
- D. Reflection of object about $y = 0$

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

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

Options 1.1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 55125119022

Option 1 ID : 55125174101

Option 2 ID : 55125174102

Option 3 ID : 55125174103

Option 4 ID : 55125174104

Status : Answered

Chosen Option : 2

Q.140 Match the LIST-I with LIST-II

LIST-I		LIST-II	
A.	Wait-for graph	I.	Holds all locks until it commits
B.	Precedence graph	II.	Holds write-locks until it commits
C.	Rigorous 2PL	III.	Use to check deadlocks
D.	Strict 2PL	IV.	Used to check serializability

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119037

Option 1 ID : 55125174161

Option 2 ID : 55125174162

Option 3 ID : 55125174163

Option 4 ID : 55125174164

Status : Answered

Chosen Option : 2

Comprehension:

In a particular program, it is found that 1% of the code accounts for 50% of the execution time. To code the program in FORTRAN, it takes 100 man-days. Coding in assembly language is 10 times harder than coding in FORTRAN, but runs 5 times faster. Converting (rewriting) an existing FORTRAN program to an assembly language program is 4 times harder than coding in FORTRAN.

SubQuestion No : 141

Q.141 The entire program is written in FORTRAN. The percentage decrease in the execution time, resulting from rewriting the 1% in assembly language is

1. 20
2. 32
3. 40
4. 60

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119091

Option 1 ID : 55125174373

Option 2 ID : 55125174374

Option 3 ID : 55125174375

Option 4 ID : 55125174376

Status : Answered

Chosen Option : 2

Comprehension:

In a particular program, it is found that 1% of the code accounts for 50% of the execution time. To code the program in FORTRAN, it takes 100 man-days. Coding in assembly language is 10 times harder than coding in FORTRAN, but runs 5 times faster. Converting (rewriting) an existing FORTRAN program to an assembly language program is 4 times harder than coding in FORTRAN.

SubQuestion No : 142

Q142 If 99% of the program is written in FORTRAN and the remaining 1% in assembly language, the percentage increase in the execution time, compared to writing the entire program in FORTRAN and rewriting the 1% in assembly language is

1. 0.9
2. 1
3. 0.1
4. 0

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119092

Option 1 ID : 55125174377

Option 2 ID : 55125174378

Option 3 ID : 55125174379

Option 4 ID : 55125174380

Status : Answered

Chosen Option : 1

Comprehension:

In a particular program, it is found that 1% of the code accounts for 50% of the execution time. To code the program in FORTRAN, it takes 100 man-days. Coding in assembly language is 10 times harder than coding in FORTRAN, but runs 5 times faster. Converting (rewriting) an existing FORTRAN program to an assembly language program is 4 times harder than coding in FORTRAN.

SubQuestion No : 143

Q143 If a project team needs 13 days to completely write the program in FORTRAN and rewriting (converting) the 1% code to assembly language, then the team consists of

1. 13 Programmers
2. 10 Programmers
3. 8 Programmers
4. 100/13 Programmers

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119089

Option 1 ID : 55125174365

Option 2 ID : 55125174366

Option 3 ID : 55125174367

Option 4 ID : 55125174368

Status : Answered

Chosen Option : 4

Comprehension:

In a particular program, it is found that 1% of the code accounts for 50% of the execution time. To code the program in FORTRAN, it takes 100 man-days. Coding in assembly language is 10 times harder than coding in FORTRAN, but runs 5 times faster. Converting (rewriting) an existing FORTRAN program to an assembly language program is 4 times harder than coding in FORTRAN.

SubQuestion No : 144

Q144 How many days will it take for 2 programmers to write the entire code in FORTRAN and then rewrite the 1% code to assembly language?

1. 52
2. 53
3. 54
4. 55

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119088

Option 1 ID : 55125174361

Option 2 ID : 55125174362

Option 3 ID : 55125174363

Option 4 ID : 55125174364

Status : Answered

Chosen Option : 2

Comprehension:

In a particular program, it is found that 1% of the code accounts for 50% of the execution time. To code the program in FORTRAN, it takes 100 man-days. Coding in assembly language is 10 times harder than coding in FORTRAN, but runs 5 times faster. Converting (rewriting) an existing FORTRAN program to an assembly language program is 4 times harder than coding in FORTRAN.

SubQuestion No : 145

Q145 If 99% of the program is written in FORTRAN and the remaining 1% in assembly language, the percentage increase in the programming time compared to writing the entire program in FORTRAN and rewriting (converting) the 1% to assembly language is

1. 10
2. 5
3. 13
4. 8

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119090

Option 1 ID : 55125174369

Option 2 ID : 55125174370

Option 3 ID : 55125174371

Option 4 ID : 55125174372

Status : Answered

Chosen Option : 3

Comprehension:

Consider the Following Context Free Grammar (G) :-

$$S \rightarrow A B$$
$$B \rightarrow + A B \mid \epsilon$$
$$A \rightarrow C D$$
$$D \rightarrow * C D \mid \epsilon$$
$$C \rightarrow [S] \mid x$$

Variable = { S, A, B, C, D }

Terminals = { +, *, [,], x }

SubQuestion No : 146

Q.146 Find the Follow (A) & Follow (C).

1. Follow (A) = {], S }; Follow (C) = { +,], S };
2. Follow (A) = { +,], S }; Follow (C) = { *, +,], S };
3. Follow (A) = { *, S, [}; Follow (C) = { *, [, S };
4. Follow (A) = { *,], S }; Follow (C) = { +,], S };

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119095

Option 1 ID : 55125174385

Option 2 ID : 55125174386

Option 3 ID : 55125174387

Option 4 ID : 55125174388

Status : Answered

Chosen Option : 3

Comprehension:

Consider the Following Context Free Grammar (G) :-

$$S \rightarrow A B$$
$$B \rightarrow +A B \mid \epsilon$$
$$A \rightarrow C D$$
$$D \rightarrow * C D \mid \epsilon$$
$$C \rightarrow [S] \mid x$$

Variable = { S, A, B, C, D }

Terminals = { +, *, [,], x }

SubQuestion No : 147

Q147 In the LL(1) Parsing table of the given CFG, how many valid non blank entities will be there in the rows for variables 'B' and 'D' ?

1. B = 3 entries ; D = 4 entries
2. B = 6 entries ; D = 5 entries
3. B = 2 entries ; D = 3 entries
4. B = 1 entry ; D = 2 entries

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119096

Option 1 ID : 55125174389

Option 2 ID : 55125174390

Option 3 ID : 55125174391

Option 4 ID : 55125174392

Status : Answered

Chosen Option : 4

Comprehension:

Consider the Following Context Free Grammar (G) :-

$S \rightarrow A B$
 $B \rightarrow + A B \mid \epsilon$
 $A \rightarrow C D$
 $D \rightarrow * C D \mid \epsilon$
 $C \rightarrow [S] \mid x$

Variable = { S, A, B, C, D }

Terminals = { +, *, [,], x }

SubQuestion No : 148

Q148 Identify the correct statement from the following.

1. The given CFG(G) is Left recursive
2. The given CFG(G) needs Left factorization
3. $[[x * x] + x]$ is a valid sentence of this grammar
4. The given CFG(G) has an SLR(o) Parser as well.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119097

Option 1 ID : 55125174393

Option 2 ID : 55125174394

Option 3 ID : 55125174395

Option 4 ID : 55125174396

Status : Answered

Chosen Option : 1

Comprehension:

Consider the Following Context Free Grammar (G) :-

$$\begin{aligned} S &\rightarrow A B \\ B &\rightarrow + A B \mid \epsilon \\ A &\rightarrow C D \\ D &\rightarrow * C D \mid \epsilon \\ C &\rightarrow [S] \mid x \end{aligned}$$

Variable = { S, A, B, C, D }

Terminals = { +, *, [,], x }

SubQuestion No : 149

Q149 What will be the FIRST(S) & FIRST(D)?

1. FIRST (S) = { +, [, x }; FIRST (D) = { +, * };
2. FIRST (S) = { [,], x }; FIRST (D) = { +, \epsilon };
3. FIRST (S) = { [, x }; FIRST (D) = { *, \epsilon };
4. FIRST (S) = { [, x, \epsilon }; FIRST (D) = { *, \epsilon };

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 55125119094

Option 1 ID : 55125174381

Option 2 ID : 55125174382

Option 3 ID : 55125174383

Option 4 ID : 55125174384

Status : Answered

Chosen Option : 2

Comprehension:

Consider the Following Context Free Grammar (G) :-

$S \rightarrow A B$
 $B \rightarrow +A B \mid \epsilon$
 $A \rightarrow C D$
 $D \rightarrow * C D \mid \epsilon$
 $C \rightarrow [S] \mid x$

Variable = { S, A, B, C, D }

Terminals = { +, *, [,], x }

SubQuestion No : 150

Q150 The I_0 state of the canonical LR(o) set of the SLR(1) parser of this CFG has how many productions?

1. 3
2. 4
3. 5
4. 6

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 55125119098

Option 1 ID : 55125174397

Option 2 ID : 55125174398

Option 3 ID : 55125174399

Option 4 ID : 55125174400

Status : Answered

Chosen Option : 3

Exam Summary

Computer Science and Applications and General Paper

Section Name	No. of Questions	Answered	Not Answered	Marked for Review	Answered & Marked for Review	Not Visited
General Paper	50	50	0	0	0	0
Computer Science and Applications	100	100	0	0	0	0