

NTA UGC NET JUN 2026_22nd to to 30th June 2026

Application No	
Candidate Name	
Roll No.	
Test Date	22/06/2026
Test Time	3:00 PM – 6:00 PM
Subject	87 Computer Science and Applications

Section : General Paper

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 : 1

- Q1 If the total number of applications received in Jan 2025 were double than the number of applications received in Feb 2025, then the applications received under area 'others' in Feb 2025 were how much percent of the applications received under the same area in Jan 2025?
1. 200%

2. 100%

3. 50%

4. 25%

Options 1.1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 55125118948

Option 1 ID : 55125173809

Option 2 ID : 55125173810

Option 3 ID : 55125173811

Option 4 ID : 55125173812

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 : 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 I. I

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 sequeces 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. Intercorelation 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

Q.14 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

- Q.17 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

- Q.18 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 | List - II |
|--------------------------------|----------------|
| A. Merge sort | I. n^2 |
| B. Binary search | II. $n \log n$ |
| C. Quick sort | III. n |
| D. Search in an unsorted array | 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

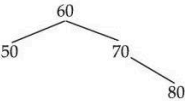
Options 1.1

- 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 : 551251f9013

Option 1 ID : 551251f74065

Option 2 ID : 551251f74066

Option 3 ID : 551251f74067

Option 4 ID : 551251f74068

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 : 551251f9069

Option 1 ID : 551251f74289

Option 2 ID : 551251f74290

Option 3 ID : 551251f74291

Option 4 ID : 551251f74292

Status : Answered

Chosen Option : 3

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

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

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 | List - II |
|---------------|---|
| A. Latency | I. number of tasks completed in a given time period |
| B. Delay | II. causes the current activity to be deferred |
| C. Throughput | III. time elapsed before next activity starts |
| D. Interrupt | 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 : 551251f9068

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 : 551251f9025

Option 1 ID : 551251741f3

Option 2 ID : 551251741f4

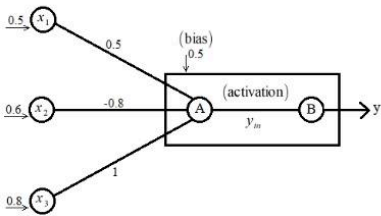
Option 3 ID : 551251741f5

Option 4 ID : 551251741f6

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 : 551251f9082
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 : 551251f9083
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 : 551251f9055

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 : 551251f9012

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 : 551251f9045

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 : 551251I9066

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 : 551251I9026

Option 1 ID : 551251741I7

Option 2 ID : 551251741I8

Option 3 ID : 551251741I9

Option 4 ID : 551251741I20

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) $\overline{A}\overline{B} + \overline{B}C + \overline{C}D$
- (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→MP, {M, Y} → P, MP → 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 : 551251f9034
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 : 551251f9046
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 : 551251f9024

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 : 551251f9070

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 : 551251f9000

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 : 551251f9062

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

Q.102 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 : 551251f9084

Option 1 ID : 55125174349

Option 2 ID : 55125174350

Option 3 ID : 55125174351

Option 4 ID : 55125174352

Status : Answered

Chosen Option : 2

Q.103 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 : 551251f8997

Option 1 ID : 55125174001

Option 2 ID : 55125174002

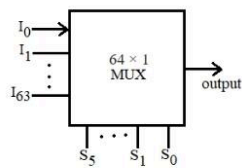
Option 3 ID : 55125174003

Option 4 ID : 55125174004

Status : Answered

Chosen Option : 3

Q.104 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

Q.105

- 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 : 55125119040

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 : 55125119043

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

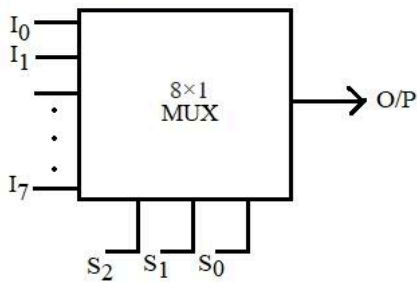
Chosen Option : 3

- 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

- Q118 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

- Q119 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 :

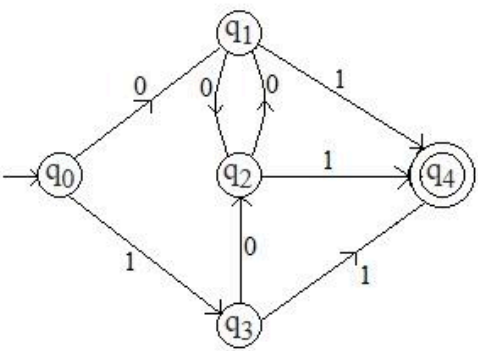
- (1) A-I, B-II, C-III, D-IV
- (2) A-III, B-II, C-IV, D-I
- (3) A-II, B-III, C-IV, D-I
- (4) A-I, B-II, C-IV, D-III

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:

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

- 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

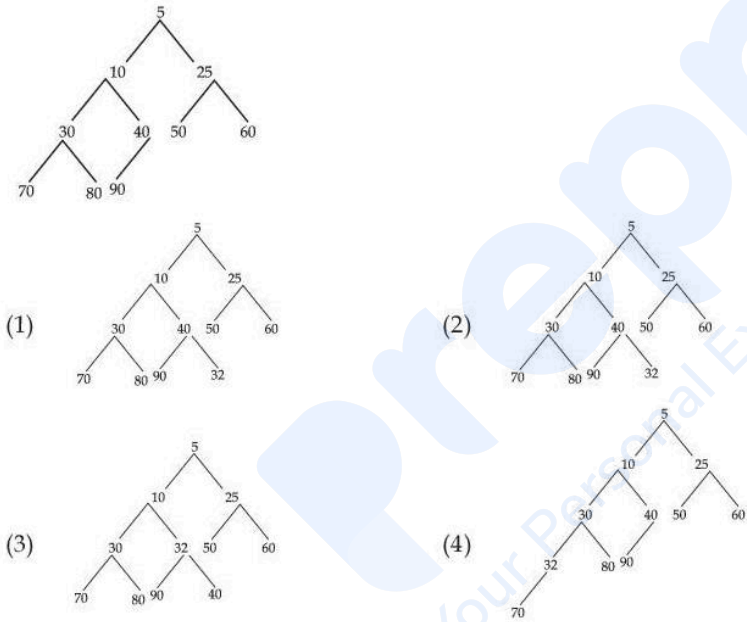
Choose the **correct** answer from the options given below :

(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 ?



- 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 : 551251f9072
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 : 551251f9086
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 : 551251f9029
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 : 551251f9019
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

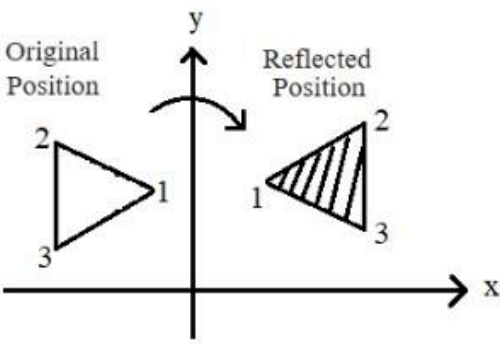
Choose the **correct** answer from the options given below:

- 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 serialzability

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 : 551251f9088
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 : 551251f9090
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 → A B

B → +A B | ∈

A → C D

D → * C D | ∈

C → [S] | 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) :-

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

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

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

SubQuestion No : 149

Q.149 What will be the FIRST(S) & FIRST(D)?

1. FIRST (S) = { +, [, x }; FIRST (D) = { +, * };

2. FIRST (S) = { [,], x }; FIRST (D) = { +, ϵ };

3. FIRST (S) = { [, x }; FIRST (D) = { *, ϵ };

4. FIRST (S) = { [, x, ϵ }; FIRST (D) = { *, ϵ };

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 → A B
B → +A B | ∈
A → C D
D → * C D | ∈
C → [S] | x

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

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

SubQuestion No : 150

Q150 The I₀ 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