

# UGC NET 2023 Dec Session Exam\_Dec 2023

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Subject	87 Computer Science and Applications

Section : General Paper

## Comprehension:

The following table shows the number of buildings constructed in six different towns A - F of a state S over the seven years from 2016-2022. Based on the data in the table, answer the questions that follow.

Town-wise Details of Buildings Constructed.

Year Town \	2016	2017	2018	2019	2020	2021	2022
A	3000	3160	3220	3272	3300	3320	3400
B	2500	2568	2640	2670	2792	2800	2900
C	2960	3000	3090	3100	3192	3200	3268
D	3448	3500	3600	3640	3664	3760	3792
E	2040	2100	2200	2230	2320	2350	2380
F	2272	2380	2460	2480	2530	2560	2588

## SubQuestion No : 1

**Q.1** What is the total number of buildings constructed in Town B over all the seven years ?

- (1) 17870
- (2) 18780
- (3) 17780
- (4) 18870

**Options 1. 1**

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

Question Type : MCQ

Question ID : 87827024939

Option 1 ID : 87827098445

Option 2 ID : 87827098446

Option 3 ID : 87827098447

Option 4 ID : 87827098448

Status : Answered

Chosen Option : 4

**Comprehension:**

The following table shows the number of buildings constructed in six different towns A - F of a state S over the seven years from 2016-2022. Based on the data in the table, answer the questions that follow.

Town-wise Details of Buildings Constructed.

Year Town \	2016	2017	2018	2019	2020	2021	2022
A	3000	3160	3220	3272	3300	3320	3400
B	2500	2568	2640	2670	2792	2800	2900
C	2960	3000	3090	3100	3192	3200	3268
D	3448	3500	3600	3640	3664	3760	3792
E	2040	2100	2200	2230	2320	2350	2380
F	2272	2380	2460	2480	2530	2560	2588

**SubQuestion No : 2**

- Q.2** In the context of towns E and F together, what is the difference between the number of buildings constructed in 2021 and that in 2017 ?

- (1) 630
- (2) 830
- (3) 430
- (4) 410

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024941

Option 1 ID : 87827098453

Option 2 ID : 87827098454

Option 3 ID : 87827098455

Option 4 ID : 87827098456

Status : Answered

Chosen Option : 3

**Comprehension:**

The following table shows the number of buildings constructed in six different towns A - F of a state S over the seven years from 2016-2022. Based on the data in the table, answer the questions that follow.

Town-wise Details of Buildings Constructed.

Year Town \	2016	2017	2018	2019	2020	2021	2022
A	3000	3160	3220	3272	3300	3320	3400
B	2500	2568	2640	2670	2792	2800	2900
C	2960	3000	3090	3100	3192	3200	3268
D	3448	3500	3600	3640	3664	3760	3792
E	2040	2100	2200	2230	2320	2350	2380
F	2272	2380	2460	2480	2530	2560	2588

**SubQuestion No : 3**

- Q.3** Total number of buildings constructed over the years from 2020 to 2022 is more than 8500 in exactly \_\_\_\_\_ towns.

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024942**

Option 1 ID : **87827098457**

Option 2 ID : **87827098458**

Option 3 ID : **87827098459**

Option 4 ID : **87827098460**

Status : **Answered**

Chosen Option : **2**

**Comprehension:**

The following table shows the number of buildings constructed in six different towns A - F of a state S over the seven years from 2016-2022. Based on the data in the table, answer the questions that follow.

Town-wise Details of Buildings Constructed.

Year Town \	2016	2017	2018	2019	2020	2021	2022
A	3000	3160	3220	3272	3300	3320	3400
B	2500	2568	2640	2670	2792	2800	2900
C	2960	3000	3090	3100	3192	3200	3268
D	3448	3500	3600	3640	3664	3760	3792
E	2040	2100	2200	2230	2320	2350	2380
F	2272	2380	2460	2480	2530	2560	2588

**SubQuestion No : 4**

- Q.4** Across the state S, the total number of buildings constructed in 2016 is approximately \_\_\_\_\_ % of the total number of buildings constructed in 2018 ?

- (1) 81
- (2) 94
- (3) 84
- (4) 74

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024938**

Option 1 ID : **87827098441**

Option 2 ID : **87827098442**

Option 3 ID : **87827098443**

Option 4 ID : **87827098444**

Status : **Answered**

Chosen Option : **2**

**Comprehension:**

The following table shows the number of buildings constructed in six different towns A - F of a state S over the seven years from 2016-2022. Based on the data in the table, answer the questions that follow.

Town-wise Details of Buildings Constructed.

Year Town \	2016	2017	2018	2019	2020	2021	2022
A	3000	3160	3220	3272	3300	3320	3400
B	2500	2568	2640	2670	2792	2800	2900
C	2960	3000	3090	3100	3192	3200	3268
D	3448	3500	3600	3640	3664	3760	3792
E	2040	2100	2200	2230	2320	2350	2380
F	2272	2380	2460	2480	2530	2560	2588

**SubQuestion No : 5**

**Q.5** What is the percentage increase in the number of buildings constructed in Town D in 2018 with reference to the previous year ?

- (1) 3.85 %
- (2) 2.85 %
- (3) 4.85 %
- (4) 4 %

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024940

Option 1 ID : 87827098449

Option 2 ID : 87827098450

Option 3 ID : 87827098451

Option 4 ID : 87827098452

Status : Answered

Chosen Option : 2

**Q.6** Total monthly salary of a couple (husband and wife) is ₹ 2.0 lakh. Their salaries are in the ratio of 5 : 3. If husband and wife spend 40 % and 20 % of their salaries, respectively, what is the ratio of their savings ?

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024960

Option 1 ID : 87827098529

Option 2 ID : 87827098530

Option 3 ID : 87827098531

Option 4 ID : 87827098532

Status : Answered

Chosen Option : 1

- Q.7** Identify the correct sequence of the missing units of data A-D that can be used to represent the size of a file, as it changes in size. The units of data increase in size from smallest to largest as given below.

bit  
-----  
-----  
kilo Byte (KB)  
-----  
-----  
tera Byte (TB)

(A) byte  
(B) gigaByte (GB)  
(C) megaByte (MB)  
(D) nibble

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

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

**Options 1. 1**

2. 2  
3. 3  
4. 4

Question Type : MCQ  
Question ID : 87827024969  
Option 1 ID : 87827098565  
Option 2 ID : 87827098566  
Option 3 ID : 87827098567  
Option 4 ID : 87827098568  
Status : Answered  
Chosen Option : 1

- Q.8** Given below are two statements :

**Statement (I)** : In Round-Robin cooperative learning strategy, students work together to achieve a common goal or complete a task.

**Statement (II)** : In group investigation cooperative learning strategy, students take turns sharing their ideas, thoughts or solutions within their group.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct  
(2) Both **Statement I** and **Statement II** are incorrect  
(3) **Statement I** is correct but **Statement II** is incorrect  
(4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

2. 2  
3. 3  
4. 4

Question Type : MCQ  
Question ID : 87827024944  
Option 1 ID : 87827098465  
Option 2 ID : 87827098466  
Option 3 ID : 87827098467  
Option 4 ID : 87827098468  
Status : Answered  
Chosen Option : 1

**Q.9** Given below are two statements :

**Statement (I)** : Under Montreal protocol developed and developing nations have differentiated responsibilities.

**Statement (II)** : Under Kigali amendment of Montreal protocol, ChloroFluoroCarbons (CFCs) and HydroChloroFluoroCarbons (HCFCs) were to be phased out.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024974**

Option 1 ID : **87827098585**

Option 2 ID : **87827098586**

Option 3 ID : **87827098587**

Option 4 ID : **87827098588**

Status : **Answered**

Chosen Option : **1**

**Q.10** In which strategy of cooperative learning, students are separated into an inner and outer circle (In the inner circle, students have a discussion and students in the outer circle listen to the discussion) ?

- (1) Snow ball
- (2) Fishbowl
- (3) Jigsaw
- (4) Think-pair-share

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024946**

Option 1 ID : **87827098473**

Option 2 ID : **87827098474**

Option 3 ID : **87827098475**

Option 4 ID : **87827098476**

Status : **Answered**

Chosen Option : **1**

**Q.11** In conversations, relevancy maxim means making :

- (1) Metaphoric remarks
- (2) Allusions
- (3) Pertinent comments
- (4) Rudimentary comments

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827024953**  
Option 1 ID : **87827098501**  
Option 2 ID : **87827098502**  
Option 3 ID : **87827098503**  
Option 4 ID : **87827098504**  
Status : **Answered**  
Chosen Option : **1**

**Q.12** Which of the following are the examples of Information Development Model ?

- (A) Self Awareness Model
- (B) Gagne's Information Model
- (C) Jerome Bruner's Model
- (D) Schuman's Model
- (E) Group Investigation Model

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

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

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827024947**  
Option 1 ID : **87827098477**  
Option 2 ID : **87827098478**  
Option 3 ID : **87827098479**  
Option 4 ID : **87827098480**  
Status : **Answered**  
Chosen Option : **1**

**Q.13** Given below are two statements :

**Statement (I) :** Naturally occurring Volatile Organic Compounds (VOCs) generally oxidize to form Carbonmonoxide (CO) and Carbondioxide (CO<sub>2</sub>)

**Statement (II) :** Anthropogenically emitted VOCs play an important role in the formation of smog  
In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024975**

Option 1 ID : **87827098589**

Option 2 ID : **87827098590**

Option 3 ID : **87827098591**

Option 4 ID : **87827098592**

Status : **Answered**

Chosen Option : **1**

**Q.14** The Hindu College in Banares set up by Annie Besant before Independence proposed to impart :

- (1) Physical education
- (2) Religious and moral education
- (3) Western education
- (4) Medical education

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024978**

Option 1 ID : **87827098601**

Option 2 ID : **87827098602**

Option 3 ID : **87827098603**

Option 4 ID : **87827098604**

Status : **Answered**

Chosen Option : **2**

**Q.15** Given below are two statements :

**Statement (I) :** According to UGC regulations 2018 on Prevention of Plagiarism, a student is required to give an undertaking while submitting a thesis, stating that the document is his/her original work which is free from any plagiarism.

**Statement (II) :** According to UGC Regulations 2018 on Prevention of Plagiarism, the research supervisor is not required to certify that the work done by the researcher under him/her is plagiarism free.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024952**

Option 1 ID : **87827098497**

Option 2 ID : **87827098498**

Option 3 ID : **87827098499**

Option 4 ID : **87827098500**

Status : **Answered**

Chosen Option : **1**

**Q.16** Which of the following are true about Persistent Organic Pollutants (POPs) ?

- (A) They are extremely widespread and occur from tropics to Arctic.
- (B) They often accumulate in food webs and reach toxic concentrations.
- (C) Volatile Organic Compounds (VOCs) are examples of POPs.
- (D) They are widely used as flame retardants and in deodorants.
- (E) Some chemicals used in making non-stick, waterproof and stain-resistant products are categorized as POPs.

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024977**

Option 1 ID : **87827098597**

Option 2 ID : **87827098598**

Option 3 ID : **87827098599**

Option 4 ID : **87827098600**

Status : **Answered**

Chosen Option : **1**

**Q.17** Which collaborative ICT tool allows user to create digital bulletin boards to share and gather information ?

- (1) X- mind
- (2) Padlet
- (3) Book creator
- (4) Plotagon

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024943**

Option 1 ID : **87827098461**

Option 2 ID : **87827098462**

Option 3 ID : **87827098463**

Option 4 ID : **87827098464**

Status : **Answered**

Chosen Option : **1**

**Q.18** Given below are two statements :

**Statement (I)** : 'Nyaya' syllogism has three propositions

**Statement (II)** : Aristotelian syllogism has five propositions

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024967**

Option 1 ID : **87827098557**

Option 2 ID : **87827098558**

Option 3 ID : **87827098559**

Option 4 ID : **87827098560**

Status : **Answered**

Chosen Option : **1**

**Q.19** What is the next term in the following number series ?

3, 14, 39, 84, ?, .....

- (1) 176
- (2) 155
- (3) 142
- (4) 186

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024962**

Option 1 ID : **87827098537**

Option 2 ID : **87827098538**

Option 3 ID : **87827098539**

Option 4 ID : **87827098540**

Status : **Answered**

Chosen Option : **1**

**Q.20** Swayam Prabha channel 07 - Kautilya is related to which of the following subjects ?

- (A) Economics
- (B) Library Science
- (C) Commerce
- (D) Finance
- (E) Mathematics

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024945**

Option 1 ID : **87827098469**

Option 2 ID : **87827098470**

Option 3 ID : **87827098471**

Option 4 ID : **87827098472**

Status : **Answered**

Chosen Option : **1**

**Q.21** Given below are two statements :

**Statement (I) :** Pearson's coefficient of correlation 'r' is a very useful measure of the strength and direction of the relationship between two nominal variables.

**Statement (II) :** Pearson's coefficient of correlation 'r' always lies between 0 and 1.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024950**

Option 1 ID : **87827098489**

Option 2 ID : **87827098490**

Option 3 ID : **87827098491**

Option 4 ID : **87827098492**

Status : **Answered**

Chosen Option : **1**

**Q.22** Which of the following is arranged in order of increasing denotation ?

- (1) Cow, bovine, mammal, vertebrate, animal
- (2) Mammal, Vertebrate, bovine, animal, cow
- (3) Vertebrate, animal, mammal, bovine, cow
- (4) Animal, Vertebrate, mammal, bovine, cow

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024963**

Option 1 ID : **87827098541**

Option 2 ID : **87827098542**

Option 3 ID : **87827098543**

Option 4 ID : **87827098544**

Status : **Answered**

Chosen Option : **4**

**Q.23** Which of the following are the administrative reforms in universities suggested by the National Knowledge Commission ?

- (A) Appointment of vice-chancellors based on their academic and administrative credentials
- (B) De-politicisation of appointments
- (C) Centralised control of universities
- (D) Restrictions on academic freedom
- (E) Creation of a good research environment

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024981**

Option 1 ID : **87827098613**

Option 2 ID : **87827098614**

Option 3 ID : **87827098615**

Option 4 ID : **87827098616**

Status : **Answered**

Chosen Option : **1**

**Q.24** Given below are two statements :

**Statement (I)** : The monastery of Vikramasila, possessed a University with six colleges.

**Statement (II)** : Vikramasila was a well-known centre of Tantric Buddhism and attracted students from other countries.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024982**

Option 1 ID : **87827098617**

Option 2 ID : **87827098618**

Option 3 ID : **87827098619**

Option 4 ID : **87827098620**

Status : **Answered**

Chosen Option : **1**

**Q.25** Given below are two statements :

**Statement (I) :** The statement - "Pradeep's mind is a cave : deep, dark and full of bats" is an analogy which is only descriptive in nature.

**Statement (II) :** The statement - "Pradeep's mind is a cave ; deep, dark and full of bats" is an analogy which contains an argument.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024966**

Option 1 ID : **87827098553**

Option 2 ID : **87827098554**

Option 3 ID : **87827098555**

Option 4 ID : **87827098556**

Status : **Answered**

Chosen Option : **1**

**Q.26** Which of the following statements A-E about firewalls in computer networks are true ?

- (A) Firewalls are only available as hardware devices and only examine traffic entering a network.
- (B) Firewalls allow a user to set rules for network traffic.
- (C) Firewalls will automatically stop all malicious traffic.
- (D) Firewalls backup all data that is transmitted around a network.
- (E) Firewalls can be used to block access to certain websites.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024971**

Option 1 ID : **87827098573**

Option 2 ID : **87827098574**

Option 3 ID : **87827098575**

Option 4 ID : **87827098576**

Status : **Answered**

Chosen Option : **1**

**Q.27** Given below are two statements :

**Statement (I)** : The process of deduction involves drawing generalizable inferences out of observations.

**Statement (II)** : Positivism advocates the application of the methods of the natural sciences to the study of social reality.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024948**

Option 1 ID : **87827098481**

Option 2 ID : **87827098482**

Option 3 ID : **87827098483**

Option 4 ID : **87827098484**

Status : **Answered**

Chosen Option : **1**

**Q.28** Given below are two statements :

**Statement (I)** : Truth and falsehood are attributes of individual propositions.

**Statement (II)** : Validity can be attributed to any single proposition by itself.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024964**

Option 1 ID : **87827098545**

Option 2 ID : **87827098546**

Option 3 ID : **87827098547**

Option 4 ID : **87827098548**

Status : **Answered**

Chosen Option : **1**

**Q.29** Which fallacy is committed in the following argument ?

"The universe must be spherical in form because all its constituent parts are spherical in form" ?

- (1) Circular argument
- (2) Red herring
- (3) Slippery slope
- (4) Fallacy of composition

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024965**

Option 1 ID : **87827098549**

Option 2 ID : **87827098550**

Option 3 ID : **87827098551**

Option 4 ID : **87827098552**

Status : **Answered**

Chosen Option : **1**

**Q.30** Identify the correct sequence of letters which will complete the following letter series.

abcd - - - bcdbc - - - dcab - - -

- (1) abaabccdd
- (2) abcabacdd
- (3) abaabdcdd
- (4) abcadbbcd

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024959**

Option 1 ID : **87827098525**

Option 2 ID : **87827098526**

Option 3 ID : **87827098527**

Option 4 ID : **87827098528**

Status : **Answered**

Chosen Option : **2**

**Q.31** Given below are two statements :

**Statement (I)** : Wiki is usually represented in reverse chronological order, whereas blog has a structure determined by content and users.

**Statement (II)** : Blog is usually personal/someone's opinion, whereas a wiki is usually objective.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024970**

Option 1 ID : **87827098569**

Option 2 ID : **87827098570**

Option 3 ID : **87827098571**

Option 4 ID : **87827098572**

Status : **Answered**

Chosen Option : **4**

**Q.32** Match List - I with List - II.

List - I (Automatic data capture method)	List - II (Description)
(A) OCR	(I) System that reads pencil or pen marks on a piece of paper in pre-determined positions
(B) OMR	(II) System that reads characters printed in a special ink, for example, the characters written at the bottom of Bank cheque
(C) RFID	(III) Reading data directly from hard copy and converting into computer-readable form
(D) MICR	(IV) Use of minute-electronic devices (containing microchip and antenna) that can read from distances upto few minutes

Choose the correct answer from the options given below :

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827024972**

Option 1 ID : **87827098577**

Option 2 ID : **87827098578**

Option 3 ID : **87827098579**

Option 4 ID : **87827098580**

Status : **Answered**

Chosen Option : **4**

**Q.33** Which of the following is an online store house of all academic awards like certificates, diplomas, degrees, marksheets etc. ?

- (1) SWAYAM
- (2) National Digital Library
- (3) National Academic Library
- (4) National Academic Depository

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827024968**

Option 1 ID : **87827098561**

Option 2 ID : **87827098562**

Option 3 ID : **87827098563**

Option 4 ID : **87827098564**

Status : **Answered**

Chosen Option : **4**

**Q.34** Which one of the following Universities was the largest in the initial years of Lord Curzon's regime ?

- (1) Calcutta
- (2) Madras
- (3) Bombay
- (4) Punjab

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024979**

Option 1 ID : **87827098605**

Option 2 ID : **87827098606**

Option 3 ID : **87827098607**

Option 4 ID : **87827098608**

Status : **Answered**

Chosen Option : **1**

**Q.35** A milkman buys 20 litres of milk from a dairy at the cost of Rs. 50 per litre. He also purchases some mineral water at the rate of Rs 20 per litre and adds it to the milk. He then sells the adulterated milk at the rate of Rs 60 per litre and makes a profit of Rs 400. What is the amount of water he added to the milk ?

- (1) 10 litre
- (2) 8 litre
- (3) 5 litre
- (4) 4 litre

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024958**

Option 1 ID : **87827098521**

Option 2 ID : **87827098522**

Option 3 ID : **87827098523**

Option 4 ID : **87827098524**

Status : **Answered**

Chosen Option : **3**

**Q.36** Failure to understand the cultural environment can lead to :

- (1) Information richness
- (2) Exhibitionism
- (3) High-brow communication
- (4) Miscommunication

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024954**

Option 1 ID : **87827098505**

Option 2 ID : **87827098506**

Option 3 ID : **87827098507**

Option 4 ID : **87827098508**

Status : **Answered**

Chosen Option : **1**

**Q.37** Which of the following gases has the maximum contribution to Global Warming ?

- (1) Chlorofluorocarbons (CFCs)
- (2) Methane ( $\text{CH}_4$ )
- (3) Sulfur Hexa fluoride ( $\text{SF}_6$ )
- (4) Carbon dioxide ( $\text{CO}_2$ )

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024976

Option 1 ID : 87827098593

Option 2 ID : 87827098594

Option 3 ID : 87827098595

Option 4 ID : 87827098596

Status : Answered

Chosen Option : 4

**Q.38** Given below are two statements :

**Statement (I)** : The absence of fluoride in drinking water causes tooth decay.

**Statement (II)** : Absence of fluoride in drinking water causes mottling of teeth also known as dental fluorosis.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024973

Option 1 ID : 87827098581

Option 2 ID : 87827098582

Option 3 ID : 87827098583

Option 4 ID : 87827098584

Status : Answered

Chosen Option : 4

**Q.39** In a certain coding scheme :

'Family values are important' is written as 'pa, ya, si, sa'  
'Values are generally contagious' is written as 'ya, da, ja, sa'  
'Some diseases are contagious' is written as 'ka, da, sa, ro'

What are the codes for 'Contagious' and 'Values' ?

- (1) da, sa
- (2) da, si
- (3) ka, ya
- (4) da, ya

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024961**

Option 1 ID : **87827098533**

Option 2 ID : **87827098534**

Option 3 ID : **87827098535**

Option 4 ID : **87827098536**

Status : **Answered**

Chosen Option : **3**

**Q.40** Identify the threats to the internal validity of an investigation :

- (A) History
- (B) Instrumentation
- (C) Maturation

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024949**

Option 1 ID : **87827098485**

Option 2 ID : **87827098486**

Option 3 ID : **87827098487**

Option 4 ID : **87827098488**

Status : **Answered**

Chosen Option : **3**

**Q.41** Given below are two statements :

**Statement (I) :** Paralinguistic features express emotions and communicate personality traits.

**Statement (II) :** The subtle use of vocal inflections can provide special significance to verbal messages.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024956**

Option 1 ID : **87827098513**

Option 2 ID : **87827098514**

Option 3 ID : **87827098515**

Option 4 ID : **87827098516**

Status : **Answered**

Chosen Option : **1**

**Q.42** The Buddhist mode of inter-personal communication emphasises :

- (A) Unfettered use of language
- (B) Unintelligible moral frames
- (C) Symmetrical relations
- (D) Consensus through interaction
- (E) Verifiability of communication

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024955**

Option 1 ID : **87827098509**

Option 2 ID : **87827098510**

Option 3 ID : **87827098511**

Option 4 ID : **87827098512**

Status : **Answered**

Chosen Option : **1**

**Q.43** Which of the following were the recommendations of the first educational conference held at Shimla in 1901 ?

- (A) Appointment of only Indians as Vice-Chancellors of Indian Universities
- (B) Importance to teaching and research in Sanskrit
- (C) A thorough reform of Indian Universities
- (D) Appointment of a Director-General of Indian education
- (E) Co-ordination of rules for examinations

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

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827024980**

Option 1 ID : **87827098609**

Option 2 ID : **87827098610**

Option 3 ID : **87827098611**

Option 4 ID : **87827098612**

Status : **Answered**

Chosen Option : **4**

**Q.44** Which of the following refers to a method of sampling in which a core group of participants who are initially sampled for a research study recruit or recommend other potential participants ?

- (1) Simple random sampling
- (2) Snowball sampling
- (3) Quota sampling
- (4) Stratified random sampling

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827024951**

Option 1 ID : **87827098493**

Option 2 ID : **87827098494**

Option 3 ID : **87827098495**

Option 4 ID : **87827098496**

Status : **Answered**

Chosen Option : **1**

**Q.45** Match List - I with List - II.

List - I (Type of meta communications)	List - II (Description/Example)
(A) Explicit	(I) An aggressive gesture modified with a smile
(B) Implicit	(II) Comments on others' communication behaviour
(C) Verbal	(III) Sarcastic remarks
(D) Non-verbal	(IV) Comments about non-verbal behaviour

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

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

**Options**

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

Question Type : **MCQ**

Question ID : **87827024957**

Option 1 ID : **87827098517**

Option 2 ID : **87827098518**

Option 3 ID : **87827098519**

Option 4 ID : **87827098520**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Read the following passage and answer the questions that follow :

Bharat, the country of historical values and sentiments overflowing with cultures and religions, changes with every mile, but is still known for preserving its rich cultural heritage. Moving towards global tourism, the ministry of ports, shipping and waterways recently created an experience for people that brought forth the historical, cultural and religious significance of our rivers. In January and February, the global tourism and cruise sector was abuzz with the news of the world's longest river cruise MV Ganga Vilas. The cruise covered nearly 32,000 Km over 51 days, crossing 27 rivers systems across five states and two countries, via the Ganga-Brahmaputra river system. Starting from the heart of Uttar Pradesh in Varanasi to Dibrugarh in Assam, it had several stops and visits to nearly 50 locations.

The Act East Policy of Prime Minister Narendra Modi and the focus on developing the national waterways made this historic voyage a reality. It was also a true demonstration of *Atmanirbhar Bharat* (self-reliant India) with a domestically manufactured vessel, a fully Indian crew, Indian decor, Indian cuisine, Indian art and craft, and products being showcased. The vessel with a zero-discharge policy also used the Indian Oil Corporation manufactured green fuel with the Dolphin Deterrent Device.

**SubQuestion No : 46**

**Q.46** M V Ganga Vilas is a true demonstration of self-reliant India because :

- (A) The decor is done by Indian designers.
- (B) It serves both Indian and Western cuisine.
- (C) It showcases Indian arts and crafts.
- (D) It is operated by an all Indian crew.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024986**

Option 1 ID : **87827098629**

Option 2 ID : **87827098630**

Option 3 ID : **87827098631**

Option 4 ID : **87827098632**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Read the following passage and answer the questions that follow :

Bharat, the country of historical values and sentiments overflowing with cultures and religions, changes with every mile, but is still known for preserving its rich cultural heritage. Moving towards global tourism, the ministry of ports, shipping and waterways recently created an experience for people that brought forth the historical, cultural and religious significance of our rivers. In January and February, the global tourism and cruise sector was abuzz with the news of the world's longest river cruise MV Ganga Vilas. The cruise covered nearly 32,000 Km over 51 days, crossing 27 rivers systems across five states and two countries, via the Ganga-Brahmaputra river system. Starting from the heart of Uttar Pradesh in Varanasi to Dibrugarh in Assam, it had several stops and visits to nearly 50 locations.

The Act East Policy of Prime Minister Narendra Modi and the focus on developing the national waterways made this historic voyage a reality. It was also a true demonstration of *Atmanirbhar Bharat* (self-reliant India) with a domestically manufactured vessel, a fully Indian crew, Indian decor, Indian cuisine, Indian art and craft, and products being showcased. The vessel with a zero-discharge policy also used the Indian Oil Corporation manufactured green fuel with the Dolphin Deterrent Device.

**SubQuestion No : 47**

**Q.47** Given below are two statements :

**Statement (I)** : MV Ganga Vilas is an environment friendly vessel.

**Statement (II)** : MV Ganga Vilas is not indigenously manufactured vessel.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options** 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827024988**

Option 1 ID : **87827098637**

Option 2 ID : **87827098638**

Option 3 ID : **87827098639**

Option 4 ID : **87827098640**

Status : **Answered**

Chosen Option : **3**

**Comprehension:**

Read the following passage and answer the questions that follow :

Bharat, the country of historical values and sentiments overflowing with cultures and religions, changes with every mile, but is still known for preserving its rich cultural heritage. Moving towards global tourism, the ministry of ports, shipping and waterways recently created an experience for people that brought forth the historical, cultural and religious significance of our rivers. In January and February, the global tourism and cruise sector was abuzz with the news of the world's longest river cruise MV Ganga Vilas. The cruise covered nearly 32,000 Km over 51 days, crossing 27 rivers systems across five states and two countries, via the Ganga-Brahmaputra river system. Starting from the heart of Uttar Pradesh in Varanasi to Dibrugarh in Assam, it had several stops and visits to nearly 50 locations.

The Act East Policy of Prime Minister Narendra Modi and the focus on developing the national waterways made this historic voyage a reality. It was also a true demonstration of *Atmanirbhar Bharat* (self-reliant India) with a domestically manufactured vessel, a fully Indian crew, Indian decor, Indian cuisine, Indian art and craft, and products being showcased. The vessel with a zero-discharge policy also used the Indian Oil Corporation manufactured green fuel with the Dolphin Deterrent Device.

**SubQuestion No : 48**

**Q.48** Which of the following is correct about M V Ganga Vilas ?

- (1) It is a tourist spot.
- (2) It started from Haridwar.
- (3) It is world's longest river cruise.
- (4) It covered nearly 32,000 Km over 27 days

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024985

Option 1 ID : 87827098625

Option 2 ID : 87827098626

Option 3 ID : 87827098627

Option 4 ID : 87827098628

Status : Answered

Chosen Option : 3

**Comprehension:**

Read the following passage and answer the questions that follow :

Bharat, the country of historical values and sentiments overflowing with cultures and religions, changes with every mile, but is still known for preserving its rich cultural heritage. Moving towards global tourism, the ministry of ports, shipping and waterways recently created an experience for people that brought forth the historical, cultural and religious significance of our rivers. In January and February, the global tourism and cruise sector was abuzz with the news of the world's longest river cruise MV Ganga Vilas. The cruise covered nearly 32,000 Km over 51 days, crossing 27 rivers systems across five states and two countries, via the Ganga-Brahmaputra river system. Starting from the heart of Uttar Pradesh in Varanasi to Dibrugarh in Assam, it had several stops and visits to nearly 50 locations.

The Act East Policy of Prime Minister Narendra Modi and the focus on developing the national waterways made this historic voyage a reality. It was also a true demonstration of *Atmanirbhar Bharat* (self-reliant India) with a domestically manufactured vessel, a fully Indian crew, Indian decor, Indian cuisine, Indian art and craft, and products being showcased. The vessel with a zero-discharge policy also used the Indian Oil Corporation manufactured green fuel with the Dolphin Deterrent Device.

**SubQuestion No : 49**

**Q.49** The following are true about the country Bharat :

- (A) It does not preserve its cultural heritage.
- (B) It is overflowing with cultures.
- (C) It does not have a variety of religions.
- (D) It is a country of historical values.

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

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

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827024984**

Option 1 ID : **87827098621**

Option 2 ID : **87827098622**

Option 3 ID : **87827098623**

Option 4 ID : **87827098624**

Status : **Answered**

Chosen Option : **4**

**Comprehension:**

Read the following passage and answer the questions that follow :

Bharat, the country of historical values and sentiments overflowing with cultures and religions, changes with every mile, but is still known for preserving its rich cultural heritage. Moving towards global tourism, the ministry of ports, shipping and waterways recently created an experience for people that brought forth the historical, cultural and religious significance of our rivers. In January and February, the global tourism and cruise sector was abuzz with the news of the world's longest river cruise MV Ganga Vilas. The cruise covered nearly 32,000 Km over 51 days, crossing 27 rivers systems across five states and two countries, via the Ganga-Brahmaputra river system. Starting from the heart of Uttar Pradesh in Varanasi to Dibrugarh in Assam, it had several stops and visits to nearly 50 locations.

The Act East Policy of Prime Minister Narendra Modi and the focus on developing the national waterways made this historic voyage a reality. It was also a true demonstration of *Atmanirbhar Bharat* (self-reliant India) with a domestically manufactured vessel, a fully Indian crew, Indian decor, Indian cuisine, Indian art and craft, and products being showcased. The vessel with a zero-discharge policy also used the Indian Oil Corporation manufactured green fuel with the Dolphin Deterrent Device.

**SubQuestion No : 50**

**Q.50** "This historic voyage" refers to :

- (1) Global tourism
- (2) Act East Policy of Prime Minister Narendra Modi
- (3) M V Ganga Vilas cruise
- (4) Development of National waterways

Options 1. 1

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

Question Type : MCQ

Question ID : 87827024987

Option 1 ID : 87827098633

Option 2 ID : 87827098634

Option 3 ID : 87827098635

Option 4 ID : 87827098636

Status : Answered

Chosen Option : 2

**Section : Computer Science and Applications**

**Q.51** If the universe of disclosure is set of integers, then which of the following are TRUE ?

- (A)  $\forall n \exists m(n^2 < m)$
- (B)  $\exists n \forall m(n < m^2)$
- (C)  $\exists n \forall m(nm = m)$
- (D)  $\exists n \exists m(n^2 + m^2 = 6)$
- (E)  $\exists n \exists m(n + m = 4 \wedge n - m = 1)$

Choose the correct answer from the options given below :

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

Options 1. 1

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

Question Type : MCQ

Question ID : 87827025030

Option 1 ID : 87827098805

Option 2 ID : 87827098806

Option 3 ID : 87827098807

Option 4 ID : 87827098808

Status : Answered

Chosen Option : 1

- Q.52** Consider a Grammar  $E \rightarrow E + n \mid E \times n \mid n$  for a sentence  $n + n \times n$ , the handles in the right-sentential form of the reduction are ?  
(1)  $n, E + n$  and  $E + n \times n$   
(2)  $n, E + n$  and  $E + E \times n$   
(3)  $n, n + n$  and  $n + n \times n$   
(4)  $n, E + n$  and  $E \times n$

**Options 1.1**

2. 2  
3. 3  
4. 4

Question Type : **MCQ**  
Question ID : **87827025012**  
Option 1 ID : **87827098733**  
Option 2 ID : **87827098734**  
Option 3 ID : **87827098735**  
Option 4 ID : **87827098736**  
Status : **Answered**  
Chosen Option : 1

- Q.53** Which of the following statement are truth statements if universe of disclosure is set of integers :  
(A)  $\forall n(n^2 \geq 0)$   
(B)  $\exists n(n^2 = 2)$   
(C)  $\forall n(n^2 \geq n)$   
(D)  $\exists n(n^2 < 0)$

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

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

**Options 1.1**

2. 2  
3. 3  
4. 4

Question Type : **MCQ**  
Question ID : **87827025045**  
Option 1 ID : **87827098865**  
Option 2 ID : **87827098866**  
Option 3 ID : **87827098867**  
Option 4 ID : **87827098868**  
Status : **Answered**  
Chosen Option : 1

**Q.54** Which of the following statement/s is/are NOT CORRECT ?

- (A) OSPF is based on distance-vector routing protocol.
- (B) Both link-state and distance-vector routing are based on the least cost goal.
- (C) BGP4 is based on the path-vector algorithm.
- (D) The three-node instability can be avoided using split horizon combined with poison reverse.
- (E) RIP is based on link state algorithm.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025050**

Option 1 ID : **87827098885**

Option 2 ID : **87827098886**

Option 3 ID : **87827098887**

Option 4 ID : **87827098888**

Status : **Answered**

Chosen Option : **1**

**Q.55** Which one of the following statements are CORRECT ?

- (A) Granularity is the size of data item in a database.
- (B) Two operations in a schedule are said to be conflict if they belong to same transaction.
- (C) Two schedulers are said to be conflict equivalent if the order of any two conflicting operations is the same in both schedules.
- (D) Write operations which are performed without performing the write operation are known as Blind Writes.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025037**

Option 1 ID : **87827098833**

Option 2 ID : **87827098834**

Option 3 ID : **87827098835**

Option 4 ID : **87827098836**

Status : **Answered**

Chosen Option : **1**

**Q.56** Which of the statement is/are CORRECT ?

- (A) Moore and Mealy machines are finite state machines with output capabilities.
- (B) Any given Moore machine has an equivalent Mealy machine.
- (C) Any given Mealy machine has an equivalent Moore machine.
- (D) Moore machine is not a finite state machine.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025043**

Option 1 ID : **87827098857**

Option 2 ID : **87827098858**

Option 3 ID : **87827098859**

Option 4 ID : **87827098860**

Status : **Answered**

Chosen Option : **2**

**Q.57** Let  $L=\{ab, aa, baa\}$ . Which of the following strings are not in  $L^*$ .

- (1) abaabaaabaa
- (2) aaaabaaaa
- (3) baaaaabaaaab
- (4) baaaaabaa

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025009**

Option 1 ID : **87827098721**

Option 2 ID : **87827098722**

Option 3 ID : **87827098723**

Option 4 ID : **87827098724**

Status : **Answered**

Chosen Option : **3**

**Q.58**

The Hue of a colour is related to its :

- (1) Luminance
- (2) Saturation
- (3) Incandescence
- (4) Wavelength

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025000**  
Option 1 ID : **87827098685**  
Option 2 ID : **87827098686**  
Option 3 ID : **87827098687**  
Option 4 ID : **87827098688**  
Status : **Answered**  
Chosen Option : **1**

**Q.59**

Indexed/grouped allocation is useful as :

- (A) It supports both sequential and direct access.
- (B) Entire block is available for data.
- (C) It does not require lots of space for keeping pointers.
- (D) No external fragmentation.

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

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

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025040**  
Option 1 ID : **87827098845**  
Option 2 ID : **87827098846**  
Option 3 ID : **87827098847**  
Option 4 ID : **87827098848**  
Status : **Answered**  
Chosen Option : **1**

**Q.60** Arrange the following steps in the correct order for a DHCP Client to renew its IP lease with a DHCP server :

- (A) DHCP client sends a DHCPREQUEST message
- (B) DHCP server acknowledges the renewal with a DHCPACK message
- (C) DHCP client checks the local lease timer and initiates renewal
- (D) DHCP server updates its lease database

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025072**

Option 1 ID : **87827098973**

Option 2 ID : **87827098974**

Option 3 ID : **87827098975**

Option 4 ID : **87827098976**

Status : **Answered**

Chosen Option : **1**

**Q.61** Match List - I with List - II.

List - I	List - II
(A) $\phi \cap \{\phi\} =$	(I) $\phi$
(B) $\{\phi\} \cap \{\phi\} =$	(II) $\{\phi\}$
(C) $\{\phi, \{\phi\}\} - \phi =$	(III) $\{\{\phi\}\}$
(D) $\phi \cup \{\{\phi\}\} =$	(IV) $\{\phi, \{\phi\}\}$

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025054**

Option 1 ID : **87827098901**

Option 2 ID : **87827098902**

Option 3 ID : **87827098903**

Option 4 ID : **87827098904**

Status : **Answered**

Chosen Option : **1**

**Q.62** Match List - I with List - II.

- | <b>List - I</b>           | <b>List - II</b>              |
|---------------------------|-------------------------------|
| (A) Monoalphabetic Cipher | (I) Round key                 |
| (B) DES                   | (II) One-to-many relationship |
| (C) Stream Cipher         | (III) One-to-one relationship |
| (D) Polyalphabetic Cipher | (IV) Feedback mechanism       |

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

- (1) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(I), (B)-(III), (C)-(IV), (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 : **87827025062**  
Option 1 ID : **87827098933**  
Option 2 ID : **87827098934**  
Option 3 ID : **87827098935**  
Option 4 ID : **87827098936**  
Status : **Answered**  
Chosen Option : **1**

**Q.63** Three address codes can be represented in special structures known as :

- (A) Quadruples
- (B) Triples
- (C) Patterns
- (D) Indirect Triples

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

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

**Options** 1. 1

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

Question Type : **MCQ**  
Question ID : **87827025042**  
Option 1 ID : **87827098853**  
Option 2 ID : **87827098854**  
Option 3 ID : **87827098855**  
Option 4 ID : **87827098856**  
Status : **Answered**  
Chosen Option : **4**

**Q.64** A \_\_\_\_\_ point of fuzzy set A is a point  $x \in X$  at which  $\mu_A(x) = 0.5$

- (1) Core
- (2) Support
- (3) Crossover
- (4)  $\alpha$ -cut

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025026**

Option 1 ID : **87827098789**

Option 2 ID : **87827098790**

Option 3 ID : **87827098791**

Option 4 ID : **87827098792**

Status : **Answered**

Chosen Option : **1**

**Q.65** Which of the following(s) are main memory ?

- (A) Virtual memory
- (B) Cache memory
- (C) RAM
- (D) SSD

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025033**

Option 1 ID : **87827098817**

Option 2 ID : **87827098818**

Option 3 ID : **87827098819**

Option 4 ID : **87827098820**

Status : **Answered**

Chosen Option : **2**

**Q.66** Which of the following are example of CSMA channel sensing methods ?

- (A) 1-persistent
- (B) 2-persistent
- (C) p-persistent
- (D) o-persistent

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025047**

Option 1 ID : **87827098873**

Option 2 ID : **87827098874**

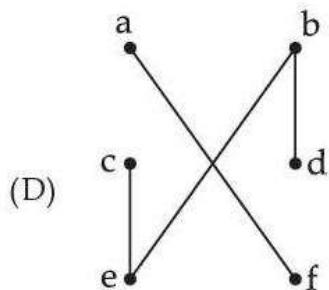
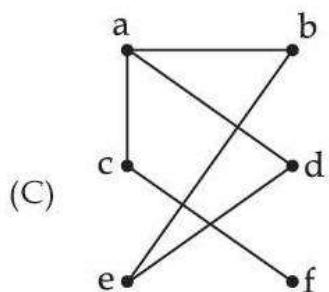
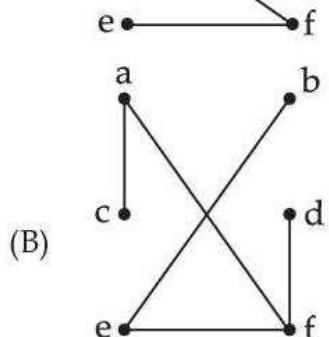
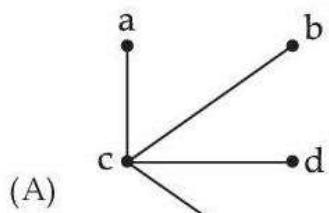
Option 3 ID : **87827098875**

Option 4 ID : **87827098876**

Status : **Answered**

Chosen Option : **1**

**Q.67** Which of the following graphs are trees ?



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

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

Options 1.1

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

Question Type : MCQ  
Question ID : 87827025046  
Option 1 ID : 87827098869  
Option 2 ID : 87827098870  
Option 3 ID : 87827098871  
Option 4 ID : 87827098872  
Status : Answered  
Chosen Option : 1

**Q.68** Which of the following are tautology ?

- (A)  $(P \rightarrow (P \wedge Q)) \rightarrow (P \rightarrow Q)$
- (B)  $((P \rightarrow Q) \rightarrow Q) \rightarrow (P \vee Q)$
- (C)  $((P \vee \neg P) \rightarrow Q) \rightarrow ((P \vee \neg P) \rightarrow R)$
- (D)  $(Q \rightarrow (P \wedge \neg P)) \rightarrow (R \rightarrow (P \wedge \neg P))$

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

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

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025034**  
Option 1 ID : **87827098821**  
Option 2 ID : **87827098822**  
Option 3 ID : **87827098823**  
Option 4 ID : **87827098824**  
Status : **Answered**  
Chosen Option : **4**

**Q.69** Arrange the following levels of interrupt protection within the Linux Kernel, in the order of increasing priority.

- (A) user mode programs
- (B) bottom half interrupt handlers
- (C) kernel system service routines
- (D) top half interrupt handlers

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

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

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025068**  
Option 1 ID : **87827098957**  
Option 2 ID : **87827098958**  
Option 3 ID : **87827098959**  
Option 4 ID : **87827098960**  
Status : **Answered**  
Chosen Option : **1**

**Q.70** Which of the following statements is/are NOT CORRECT about NUMA ?

- (A) LOAD and STORE instructions are used to access remote memory.
- (B) There is a single address space visible to all CPU.
- (C) Access to local memory is slower than access to remote memory.
- (D) When the access time to remote memory is hidden, the system is called NC - NUMA.
- (E) In CC - NUMA, Coherent caches are present.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025039**

Option 1 ID : **87827098841**

Option 2 ID : **87827098842**

Option 3 ID : **87827098843**

Option 4 ID : **87827098844**

Status : **Answered**

Chosen Option : **1**

**Q.71** Consider the following functions :

$$f(n) = 3n^{\sqrt{n}}$$

$$g(n) = 2^{\lceil n \rceil} \log_2^n$$

$$h(n) = n!$$

Which of the following is true ?

- (1)  $h(n)$  is 0 ( $f(n)$ )
- (2)  $h(n)$  is 0 ( $g(n)$ )
- (3)  $g(n)$  is not 0 ( $f(n)$ )
- (4)  $f(n)$  is 0 ( $g(n)$ )

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025015**

Option 1 ID : **87827098745**

Option 2 ID : **87827098746**

Option 3 ID : **87827098747**

Option 4 ID : **87827098748**

Status : **Answered**

Chosen Option : **1**

**Q.72**

Identify the code sequence :

1010

1011

1001

1000

- (1) BCD
- (2) Excess-3
- (3) Gray
- (4) Excess-3 gray

**Options 1.1**

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827024994**

Option 1 ID : **87827098661**

Option 2 ID : **87827098662**

Option 3 ID : **87827098663**

Option 4 ID : **87827098664**

Status : **Answered**

Chosen Option : **4**

**Q.73**

A system bus in which each data item is transferred during a time slice known in advance to both units source and destination is called :

- (1) MIMD
- (2) DMA
- (3) asynchronous bus
- (4) synchronous bus

**Options 1.1**

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025003**

Option 1 ID : **87827098697**

Option 2 ID : **87827098698**

Option 3 ID : **87827098699**

Option 4 ID : **87827098700**

Status : **Answered**

Chosen Option : **4**

- Q.74** Has functions are used to produce the message digests which are then encrypted with a private key to get :
- (1) Public key
  - (2) Digital signature
  - (3) Cipher text
  - (4) Data Encryption Standard

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025008**  
Option 1 ID : **87827098717**  
Option 2 ID : **87827098718**  
Option 3 ID : **87827098719**  
Option 4 ID : **87827098720**  
Status : **Answered**  
Chosen Option : **1**

**Q.75** What is the output of the following program ?

```
# include <stdio.h>
# define SQR(x) (x*x)
int main ( )
{ int a, b=3;
  a=SQR(b + 2);
  printf("%d",a);
  return 0;
}
```

- (1) 25
- (2) 11
- (3) Garbage value
- (4) 24

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025004**  
Option 1 ID : **87827098701**  
Option 2 ID : **87827098702**  
Option 3 ID : **87827098703**  
Option 4 ID : **87827098704**  
Status : **Answered**  
Chosen Option : **2**

**Q.76** Which of the following is not a field in TCP header ?

- (1) Sequence Number
- (2) Checksum
- (3) Frgmentation offset
- (4) Window size

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025022**  
Option 1 ID : **87827098773**  
Option 2 ID : **87827098774**  
Option 3 ID : **87827098775**  
Option 4 ID : **87827098776**  
Status : **Answered**  
Chosen Option : **3**

**Q.77** Match List - I with List - II.

- | List - I                   | List - II   |
|----------------------------|---|
| (A) LRU                    | (I) A page is written to secondary memory only when it has been selected for replacement        |
| (B) Demand cleaning        | (II) A page that has not been referenced for the longest time is replaced                       |
| (C) Long term scheduling   | (III) The decision to add to the number of processes that are partially or fully in main memory |
| (D) Medium term scheduling | (IV) The decision to add to the pool of processes to be executed                                |

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

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

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025058**  
Option 1 ID : **87827098917**  
Option 2 ID : **87827098918**  
Option 3 ID : **87827098919**  
Option 4 ID : **87827098920**  
Status : **Answered**  
Chosen Option : **2**

**Q.78** Match List - I with List - II.

- | <b>List - I</b>         | <b>List - II</b>                |
|-------------------------|---------------------------------|
| (A) Bresenham           | (I) Hidden surface removal      |
| (B) Cohen-Sutherland    | (II) Line drawing algorithm     |
| (C) Sutherland-Hodgeman | (III) Line clipping algorithm   |
| (D) Z-Buffer            | (IV) Polygon clipping algorithm |

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

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

**Options** 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025056**

Option 1 ID : **87827098909**

Option 2 ID : **87827098910**

Option 3 ID : **87827098911**

Option 4 ID : **87827098912**

Status : **Answered**

Chosen Option : **1**

**Q.79** Which collision resolution technique involves maintaining a linked list of collided keys ?

- (1) Linear probing
- (2) Quadratic probing
- (3) Chaining
- (4) Double hashing

**Options** 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025014**

Option 1 ID : **87827098741**

Option 2 ID : **87827098742**

Option 3 ID : **87827098743**

Option 4 ID : **87827098744**

Status : **Answered**

Chosen Option : **1**

**Q.80**

What is the output of the following program ?

```
#include<stdio.h>
int main( )
{ int i=3;
while (i--)
{ int i=10;
    i--;
printf("%d", i);
}
printf("%d", i);
}
(1) 990
(2) 9990
(3) 999 - 1
(4) 99 - 1
```

**Options**

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

Question Type : **MCQ**  
Question ID : **87827024999**  
Option 1 ID : **87827098681**  
Option 2 ID : **87827098682**  
Option 3 ID : **87827098683**  
Option 4 ID : **87827098684**  
Status : **Answered**  
Chosen Option : **2**

**Q.81** The statement  $P(x)$  : " $x=x^2$ ". If the universe of disclosure consists of integers, what are the following have truth values :

- (A)  $P(0)$
- (B)  $P(1)$
- (C)  $P(2)$
- (D)  $\exists x P(x)$
- (E)  $\forall x P(x)$

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

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

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025044**  
Option 1 ID : **87827098861**  
Option 2 ID : **87827098862**  
Option 3 ID : **87827098863**  
Option 4 ID : **87827098864**  
Status : **Answered**  
Chosen Option : **1**

**Q.82** Which of the following statements is TRUE ?

- (1) Virtual functions do not implement polymorphism
- (2) Virtual functions do not permit calling of derived class functions using a base class pointer
- (3) We can never build an object from a class containing a pure virtual function
- (4) Pure virtual functions can never have a body

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827024998**  
Option 1 ID : **87827098677**  
Option 2 ID : **87827098678**  
Option 3 ID : **87827098679**  
Option 4 ID : **87827098680**  
Status : **Answered**  
Chosen Option : **1**

**Q.83** One of the purposes of using intermediate code in compilers is to :

- (1) make parsing and semantic analysis simpler
- (2) improve error recovery and error reporting
- (3) increase the chances of reusing the machine independent code optimizer in other compilers
- (4) improve the register allocation

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025018**  
Option 1 ID : **87827098757**  
Option 2 ID : **87827098758**  
Option 3 ID : **87827098759**  
Option 4 ID : **87827098760**  
Status : **Answered**  
Chosen Option : **3**

**Q.84** Given below are two statements :

**Statement (I) :** The friend function and the member functions of a friend class directly access the private and protected data.

**Statement (II) :** The friend function can access the private data through the member functions of the base class

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025075**

Option 1 ID : **87827098985**

Option 2 ID : **87827098986**

Option 3 ID : **87827098987**

Option 4 ID : **87827098988**

Status : **Answered**

Chosen Option : **1**

**Q.85** “CREATE TABLE T” in SQL is an example of :

- (1) Normalization
- (2) DML
- (3) DDL
- (4) Primary key

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025001**

Option 1 ID : **87827098689**

Option 2 ID : **87827098690**

Option 3 ID : **87827098691**

Option 4 ID : **87827098692**

Status : **Answered**

Chosen Option : **1**

**Q.86** Arrange the following encoding strategies used in Genetic Algorithms (GAs) in the correct sequence starting from the initial step and ending with the final representation of solutions :

- (A) Binary Encoding
- (B) Real valued Encoding
- (C) Permutation Encoding
- (D) Gray coding

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025071**

Option 1 ID : **87827098969**

Option 2 ID : **87827098970**

Option 3 ID : **87827098971**

Option 4 ID : **87827098972**

Status : **Answered**

Chosen Option : **1**

**Q.87** The head of a moving head disk with 200 tracks, numbered 0 to 199, has just finished a request at track 125, and currently serving a request at track 143. The queue of requests is given in the FIFO order as 86, 147, 91, 177, 94, 150, 102, 175, 130. What will be the total number of head movements required to satisfy these requests for SCAN algorithm ?

- (1) 259 cylinders
- (2) 169 cylinders
- (3) 154 cylinders
- (4) 264 cylinders

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025005**

Option 1 ID : **87827098705**

Option 2 ID : **87827098706**

Option 3 ID : **87827098707**

Option 4 ID : **87827098708**

Status : **Answered**

Chosen Option : **1**

**Q.88**

In a genetic algorithm optimization problem the fitness function is defined as  $f(x) = x^2 - 4x + 4$ . Given a population of four individuals with values of  $x : \{1.5, 2.0, 3.0, 4.5\}$

What is the fitness value of the individual that will be selected as the parent for reproduction in one generation ?

- (1) 2.25
- (2) 6.0
- (3) 0.0
- (4) 6.25

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025027**

Option 1 ID : **87827098793**

Option 2 ID : **87827098794**

Option 3 ID : **87827098795**

Option 4 ID : **87827098796**

Status : **Answered**

Chosen Option : **1**

**Q.89**

Which of the following are commonly used parsing techniques in NLP (Natural Language Processing) for syntactic analysis.

- (A) Top down parsing
- (B) Bottom Up parsing
- (C) Dependency parsing
- (D) Statistical machine translation
- (E) Earley parsing

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025052**

Option 1 ID : **87827098893**

Option 2 ID : **87827098894**

Option 3 ID : **87827098895**

Option 4 ID : **87827098896**

Status : **Answered**

Chosen Option : **1**

**Q.90** Which of the following statements are CORRECT ?

- (A) A process always check state of currently executing process to enter critical schema.
- (B) Spin locks uses busy waiting.
- (C) Periodically testing a variable until some value appear is known as busy waiting.
- (D) Critical region is a part of program, where shared memory is kept.
- (E) Printer daemon, continuously checks to see if there are any file to be printed.

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

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025041**

Option 1 ID : **87827098849**

Option 2 ID : **87827098850**

Option 3 ID : **87827098851**

Option 4 ID : **87827098852**

Status : **Answered**

Chosen Option : **1**

**Q.91** Arrange the following steps in the correct sequence for applying an unsupervised learning technique such as K-means clustering is to a data set :

- (A) Randomly initialize cluster centroids
- (B) Assign each data point to nearest cluster centroid
- (C) Update the cluster centroids based on the mean of data points assigned to each cluster
- (D) Specify the number of clusters (K) to partition the data into
- (E) Repeat steps B and C until convergence criteria are met

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

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025073**

Option 1 ID : **87827098977**

Option 2 ID : **87827098978**

Option 3 ID : **87827098979**

Option 4 ID : **87827098980**

Status : **Answered**

Chosen Option : **1**

**Q.92** Arrange the following phases of a compiler as per their order of execution (start to end)

- (A) Target code generation
- (B) Syntax Analysis
- (C) Code optimization
- (D) Semantic Analysis
- (E) Lexical Analysis

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025069**

Option 1 ID : **87827098961**

Option 2 ID : **87827098962**

Option 3 ID : **87827098963**

Option 4 ID : **87827098964**

Status : **Answered**

Chosen Option : **1**

**Q.93** Given below are two statements :

**Statement (I)** : In datagram networks - routers hold state information about connections

**Statement (II)** : In virtual circuit network- each virtual circuit requires router table space per connection

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025078**

Option 1 ID : **87827098997**

Option 2 ID : **87827098998**

Option 3 ID : **87827098999**

Option 4 ID : **87827099000**

Status : **Answered**

Chosen Option : **1**

**Q.94** A program that is used by other routines to accomplish a particular task, is called :

- (1) Micro program
- (2) Micro operation
- (3) Routine
- (4) Subroutine

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024996**

Option 1 ID : **87827098669**

Option 2 ID : **87827098670**

Option 3 ID : **87827098671**

Option 4 ID : **87827098672**

Status : **Answered**

Chosen Option : **4**

**Q.95** Match List - I with List - II.

**List - I**

- |                        |               |
|------------------------|---------------|
| (A) Hill climbing      | (I) $O(b^d)$  |
| (B) Best first search  | (II) $O(bd)$  |
| (C) A* Search          | (III) $O(1)$  |
| (D) Depth first search | (IV) $O(b^m)$ |

**List - II**

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025063**

Option 1 ID : **87827098937**

Option 2 ID : **87827098938**

Option 3 ID : **87827098939**

Option 4 ID : **87827098940**

Status : **Answered**

Chosen Option : **2**

**Q.96** What is the result of evaluating the postfix expression “ $43*25*+b-$ ” ?

- (1) 8
- (2) 14
- (3) 10
- (4) 5

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024992**

Option 1 ID : **87827098653**

Option 2 ID : **87827098654**

Option 3 ID : **87827098655**

Option 4 ID : **87827098656**

Status : **Answered**

Chosen Option : **2**

**Q.97** Consider the following code segment :

```
int arr [ ] = {0, 1, 2, 3, 4};
```

```
int i=1, *ptr;
```

```
ptr=arr +2;
```

arrange the following printf statements in the increasing order of their output.

- (A) printf (“%d”, ptr[i]);
- (B) printf (“%d”, ptr[i+1]);
- (C) printf (“%d”, ptr[ -i]);
- (D) printf (“%d”, ptr[ -i+1]);

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025066**

Option 1 ID : **87827098949**

Option 2 ID : **87827098950**

Option 3 ID : **87827098951**

Option 4 ID : **87827098952**

Status : **Answered**

Chosen Option : **2**

**Q.98** The interface(s) that provide(s) I/O transfer of data directly to and from the memory unit peripheral is/are termed as :

- (A) DMA (Direct Memory Access)
- (B) IOP (Input-Output Processor)
- (C) Serial Interface
- (D) Parallel Interface

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

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

**Options 1.1**

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025032**

Option 1 ID : **87827098813**

Option 2 ID : **87827098814**

Option 3 ID : **87827098815**

Option 4 ID : **87827098816**

Status : **Answered**

Chosen Option : **3**

**Q.99** In a feed forward neural network with the following specifications :

Input layer has 4 neurons, hidden layer has 3 neurons and output layer has 2 neurons using the sigmoid activation function for given input values [0.5, 0.8, 0.2, 0.6] as well as the initial weights for the connections.

$W1 : [0.1, 0.3, 0.5, 0.2]$   
 $W2 : [0.2, 0.4, 0.6, 0.2]$   
 $W3 : [0.3, 0.5, 0.7, 0.2]$

Input layer to hidden layer weights

$W4 : [0.4, 0.1, 0.3]$   
 $W5 : [0.5, 0.2, 0.4]$

Hidden layer to output layer weights

What is the output of the output layer when the given input values are passed through neural network ? Round the answer to two decimal places :

- (1) [0.62, 0.68]
- (2) [0.72, 0.78]
- (3) [0.82, 0.88]
- (4) [0.92, 0.98]

**Options 1.1**

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025028**

Option 1 ID : **87827098797**

Option 2 ID : **87827098798**

Option 3 ID : **87827098799**

Option 4 ID : **87827098800**

Status : **Answered**

Chosen Option : **1**

**Q.100**

In Linux, where is the user password stored ?

- (1) /etc/password
- (2) /root/password
- (3) /etc/passwd
- (4) /root/passwd

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025007**

Option 1 ID : **87827098713**

Option 2 ID : **87827098714**

Option 3 ID : **87827098715**

Option 4 ID : **87827098716**

Status : **Answered**

Chosen Option : **4**

**Q.101** Which of the following is/are NOT CORRECT statement ?

- (A) The first record in each block of the data file is known as actor record.
- (B) Dense index has index entries for every search key value in the data file.
- (C) Searching is harder in the B<sup>+</sup> tree than B- tree as the all external nodes linked to each other.
- (D) In extendible hashing the size of directory is just an array of  $2^{d-1}$ , where d is global depth.

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025038**

Option 1 ID : **87827098837**

Option 2 ID : **87827098838**

Option 3 ID : **87827098839**

Option 4 ID : **87827098840**

Status : **Answered**

Chosen Option : **1**

**Q.102** A multiplexes combines for 100 Kbps channels using a time slot of 2 bits. What is the bit rate ?

- (1) 100 Kbps
- (2) 200 Kbps
- (3) 40 Kbps
- (4) 1000 Kbps

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025021**  
Option 1 ID : **87827098769**  
Option 2 ID : **87827098770**  
Option 3 ID : **87827098771**  
Option 4 ID : **87827098772**  
Status : **Answered**  
Chosen Option : 1

**Q.103** The work done by UDP is/are :

- (A) Congestion control
- (B) Flow control
- (C) Retransmission
- (D) Segments transmission

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

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

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025049**  
Option 1 ID : **87827098881**  
Option 2 ID : **87827098882**  
Option 3 ID : **87827098883**  
Option 4 ID : **87827098884**  
Status : **Answered**  
Chosen Option : 1

**Q.104** In most general case, the computer needs to process each instruction with the following sequence of steps :

- (A) Calculate the effective address
- (B) Execute the instruction
- (C) Fetch the instruction from memory
- (D) Fetch the operand from memory
- (E) Decode the instruction

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

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025065**

Option 1 ID : **87827098945**

Option 2 ID : **87827098946**

Option 3 ID : **87827098947**

Option 4 ID : **87827098948**

Status : **Answered**

Chosen Option : **3**

**Q.105** Match List - I with List - II according to input to the compiler phase that process it :

List - I	List - II
(A) Syntax tree	(I) Code generator
(B) Intermediate representation	(II) Semantic analyzer
(C) Token stream	(III) Lexical analyze
(D) Character stream	(IV) Syntax analyser

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

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

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025059**

Option 1 ID : **87827098921**

Option 2 ID : **87827098922**

Option 3 ID : **87827098923**

Option 4 ID : **87827098924**

Status : **Answered**

Chosen Option : **4**

**Q.106**

Level - 0 DFD is also called as :

- (1) Use case Diagram
- (2) Sequence Diagram
- (3) Context Diagram
- (4) Prototype Diagram

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025024**

Option 1 ID : **87827098781**

Option 2 ID : **87827098782**

Option 3 ID : **87827098783**

Option 4 ID : **87827098784**

Status : **Answered**

Chosen Option : **1**

**Q.107**

What is the generic structure of Multi Agent System (MAS) ?

- (1) Single agent with multiple objectives
- (2) Multiagents with a single objectives
- (3) Multiagents with diverse objectives and communication abilities
- (4) Multiagent with two objectives

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025025**

Option 1 ID : **87827098785**

Option 2 ID : **87827098786**

Option 3 ID : **87827098787**

Option 4 ID : **87827098788**

Status : **Answered**

Chosen Option : **1**

**Q.108** Given below are two statements :

**Statement (I) :** A thread is a dispatchable unit of work that does not execute sequentially and is not interruptible

**Statement (II) :** It is not possible to alter the behaviour of a thread by altering its context when thread is suspended

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025076**

Option 1 ID : **87827098989**

Option 2 ID : **87827098990**

Option 3 ID : **87827098991**

Option 4 ID : **87827098992**

Status : **Answered**

Chosen Option : **1**

**Q.109** Which of the following is not a palindromic subsequence of the string “ababcdabba” ?

- (1) abcba
- (2) abba
- (3) abbbba
- (4) adba

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827024990**

Option 1 ID : **87827098645**

Option 2 ID : **87827098646**

Option 3 ID : **87827098647**

Option 4 ID : **87827098648**

Status : **Answered**

Chosen Option : **1**

**Q.110** The selection of Spiral Model based on characteristics of requirements :

- (A) Are requirements easily understandable and defined ?
  - (B) Do we change requirements quite often ?
  - (C) Can we define requirements early in the cycle ?
  - (D) Requirements are indicating a complex to be built
- Choose the **correct** answer from the options given below :
- (1) (C) Only
  - (2) (B) Only
  - (3) (B) and (D) Only
  - (4) (A) and (C) Only

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025048**

Option 1 ID : **87827098877**

Option 2 ID : **87827098878**

Option 3 ID : **87827098879**

Option 4 ID : **87827098880**

Status : **Answered**

Chosen Option : **1**

**Q.111** The sum of minimum and maximum number of final states for a Deterministic Finite Automata (DFA) having ' $P'$  state is equal to :

- (1)  $p$
- (2)  $p - 1$
- (3)  $p + 1$
- (4)  $p + 2$

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025019**

Option 1 ID : **87827098761**

Option 2 ID : **87827098762**

Option 3 ID : **87827098763**

Option 4 ID : **87827098764**

Status : **Answered**

Chosen Option : **1**

**Q.112** 2 – 3 – 4 trees are B - trees of order 4. They are isometric of \_\_\_\_\_ trees.

- (1) AVL
- (2) AA
- (3) 2 – 3
- (4) Red-Black

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025016

Option 1 ID : 87827098749

Option 2 ID : 87827098750

Option 3 ID : 87827098751

Option 4 ID : 87827098752

Status : Answered

Chosen Option : 1

**Q.113** If universe of disclosure are all real numbers, then which of the following are true ?

- (A)  $\exists x \forall y (x+y=y)$
- (B)  $\forall x \forall y (((x \geq 0) \wedge (y < 0)) \rightarrow (x - y > 0))$
- (C)  $\exists x \exists y (((x \leq 0) \wedge (y \leq 0)) \wedge (x - y > 0))$
- (D)  $\forall x \forall y ((x \neq 0) \wedge (y \neq 0) \leftrightarrow (xy \neq 0))$

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

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025029

Option 1 ID : 87827098801

Option 2 ID : 87827098802

Option 3 ID : 87827098803

Option 4 ID : 87827098804

Status : Answered

Chosen Option : 1

**Q.114** Which of the following symbol table implementation is best suited if access time is to be minimum ?

- (1) Linear list
- (2) Search tree
- (3) Hash Table
- (4) Self organisation list

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025011

Option 1 ID : 87827098729

Option 2 ID : 87827098730

Option 3 ID : 87827098731

Option 4 ID : 87827098732

Status : Answered

Chosen Option : 3

**Q.115** Consider a triangle PQR with coordinates as P(0,0), Q(2,2) and R(10,4). If this triangle is to be magnified to four times its size while keeping R(10, 4) fixed, then the coordinates of the magnified triangle are :

- (1) (-20, -12), Q(-20, -4) and R(10, 4)
- (2) (-30, -12), Q(-22, -4) and R(10, 4)
- (3) (-25, -10), Q(22, -4) and R(10, 4)
- (4) (30, -12), Q(-22, 4) and R(10, 4)

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827024997

Option 1 ID : 87827098673

Option 2 ID : 87827098674

Option 3 ID : 87827098675

Option 4 ID : 87827098676

Status : Answered

Chosen Option : 1

**Q.116** In the content of Alpha Beta pruning in game trees which of the following statements are correct regarding cut off procedures ?

- (A) Alpha Beta pruning can eliminate subtrees with certainty when the value of a node exceeds both the alpha and beta bonds.
- (B) The primary purpose of Alpha-Beta pruning is to save computation time by searching fewer nodes in the same tree.
- (C) Alpha Beta pruning guarantees the optimal solution in all cases by exploring the entire game tree.
- (D) Alpha and Beta bonds are initialized to negative and positive infinity respectively at the root note.

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

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025053

Option 1 ID : 87827098897

Option 2 ID : 87827098898

Option 3 ID : 87827098899

Option 4 ID : 87827098900

Status : Answered

Chosen Option : 1

**Q.117** What is the probability that a positive integer selected at random from the set of positive integer not exceeding 100 is divisible by either 2 or 5 ?

- (1)  $10/5$
- (2)  $3/5$
- (3)  $2/5$
- (4)  $1/5$

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827024989**  
Option 1 ID : **87827098641**  
Option 2 ID : **87827098642**  
Option 3 ID : **87827098643**  
Option 4 ID : **87827098644**  
Status : **Answered**  
Chosen Option : **1**

**Q.118** Which data structure is typically used to implement hash table ?

- (1) Linked list
- (2) Array
- (3) Binary Tree
- (4) Stack

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025013**  
Option 1 ID : **87827098737**  
Option 2 ID : **87827098738**  
Option 3 ID : **87827098739**  
Option 4 ID : **87827098740**  
Status : **Answered**  
Chosen Option : **2**

**Q.119** Given below are two statements :

**Statement (I)** : If H is non empty finite subset of a group G and  $a \in H \forall a, b \in H$ , then H is also a group

**Statement (II)** : There is no homomorphism exist from  $(\mathbb{Z}, +)$  to  $(\mathbb{Q}, +)$ ; where  $\mathbb{Z}$  is set of integers and  $\mathbb{Q}$  is set of rational number.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both Statement I and Statement II are correct
- (2) Both Statement I and Statement II are incorrect
- (3) Statement I is correct but Statement II is incorrect
- (4) Statement I is incorrect but Statement II is correct

**Options 1.1**

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

Question Type : **MCQ**  
Question ID : **87827025074**  
Option 1 ID : **87827098981**  
Option 2 ID : **87827098982**  
Option 3 ID : **87827098983**  
Option 4 ID : **87827098984**  
Status : **Answered**  
Chosen Option : **1**

**Q.120** Which of the following statement/s are CORRECT ?

- (A) NRZ is a bipolar scheme in which the positive voltage define bit is 0 (zero).
- (B) NRZ-L and NRZ-I both have an average signal rate of N/2.
- (C) The idea of RZ and NRZ-L are combined into Manchester scheme.
- (D) NRZ-L and NRZ-I both have DC component problems.
- (E) The minimum bandwidth of Manchester and differential Manchester is 3 times that of NRZ.

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

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

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025051**

Option 1 ID : **87827098889**

Option 2 ID : **87827098890**

Option 3 ID : **87827098891**

Option 4 ID : **87827098892**

Status : **Answered**

Chosen Option : **1**

**Q.121** Given below are two statements :

**Statement (I)** : In Reuse Oriented Model, Modification of the old system parts appropriate to the new requirements.

**Statement (II)** : In Reuse Oriented Model, Integration of the modified parts are not possible into the new systems.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **Statement I** and **Statement II** are correct
- (2) Both **Statement I** and **Statement II** are incorrect
- (3) **Statement I** is correct but **Statement II** is incorrect
- (4) **Statement I** is incorrect but **Statement II** is correct

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025077**

Option 1 ID : **87827098993**

Option 2 ID : **87827098994**

Option 3 ID : **87827098995**

Option 4 ID : **87827098996**

Status : **Answered**

Chosen Option : **1**

**Q.122** Match List - I with List - II.

- | <b>List - I</b> | <b>List - II</b>                 |
|-----------------|----------------------------------|
| (A) SZA         | (I) Increment M and skip it zero |
| (B) SKI         | (II) Skip if AC is negative      |
| (C) SNA         | (III) Skip if input flag is on   |
| (D) ISZ         | (IV) Skip if AC is Zero          |

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

- (1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(IV), (B)-(II), (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 : **87827025055**  
Option 1 ID : **87827098905**  
Option 2 ID : **87827098906**  
Option 3 ID : **87827098907**  
Option 4 ID : **87827098908**  
Status : **Answered**  
Chosen Option : **2**

**Q.123** Which of the statement are CORRECT ?

- (A) Constructors are invoked automatically when the objects are created.
- (B) Constructors do not have return types, not even void and therefore they cannot return values.
- (C) Constructors cannot be inherited though a derived class can call the base class constructors.
- (D) Constructors can be declared as virtual.

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

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

**Options** 1. 1

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

Question Type : **MCQ**  
Question ID : **87827025036**  
Option 1 ID : **87827098829**  
Option 2 ID : **87827098830**  
Option 3 ID : **87827098831**  
Option 4 ID : **87827098832**  
Status : **Answered**  
Chosen Option : **1**

Q.124

An Address in main memory is called :

- (1) Virtual address
- (2) Memory address
- (3) Logical address
- (4) Physical address

Options 1.1

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

Question Type : MCQ

Question ID : 87827025002

Option 1 ID : 87827098693

Option 2 ID : 87827098694

Option 3 ID : 87827098695

Option 4 ID : 87827098696

Status : Answered

Chosen Option : 1

Q.125 The microoperation which divides a signed binary number by 2 is :

- (1) Circular shift
- (2) Logical shift
- (3) Arithmetic shift right
- (4) Arithmetic shift left

Options 1.1

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

Question Type : MCQ

Question ID : 87827024995

Option 1 ID : 87827098665

Option 2 ID : 87827098666

Option 3 ID : 87827098667

Option 4 ID : 87827098668

Status : Answered

Chosen Option : 3

**Q.126** Match List - I with List - II.

List - I	List - II
<b>Propositions</b>	<b>Disjunctive Normal Form (DNF)</b>
(A) $P \wedge (P \rightarrow Q)$	(I) $P \vee Q$
(B) $\neg(P \vee Q) \rightarrow (P \wedge Q)$	(II) $(P \wedge \neg P) \vee (P \wedge Q)$
(C) $P \rightarrow Q$	(III) $(\neg P) \vee Q$
(D) $P \vee (Q \wedge R)$	(IV) $(P \wedge P) \vee (P \wedge Q) \vee (P \wedge R) \vee (Q \wedge R)$

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025060**

Option 1 ID : **87827098925**

Option 2 ID : **87827098926**

Option 3 ID : **87827098927**

Option 4 ID : **87827098928**

Status : **Answered**

Chosen Option : **2**

**Q.127** Which of the following circuit is used to store one bit of data ?

- (1) Encoder
- (2) Decoder
- (3) Flip-Flop
- (4) Register

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024993**

Option 1 ID : **87827098657**

Option 2 ID : **87827098658**

Option 3 ID : **87827098659**

Option 4 ID : **87827098660**

Status : **Answered**

Chosen Option : **3**

**Q.128**

Test suite is consist of :

- (1) Set of defect cases
- (2) Set of boundary cases
- (3) Set of test cases
- (4) Set of nest cases

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025020**  
Option 1 ID : **87827098765**  
Option 2 ID : **87827098766**  
Option 3 ID : **87827098767**  
Option 4 ID : **87827098768**  
Status : **Answered**  
Chosen Option : **3**

**Q.129** In "bit stuffing", each frame begins and ends with a bit pattern in hexadecimal ?

- (1) Ox8C
- (2) OxF
- (3) OxFF
- (4) OxE

**Options 1. 1**

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

Question Type : **MCQ**  
Question ID : **87827025023**  
Option 1 ID : **87827098777**  
Option 2 ID : **87827098778**  
Option 3 ID : **87827098779**  
Option 4 ID : **87827098780**  
Status : **Answered**  
Chosen Option : **3**

**Q.130** Consider the three points P1(1, 2, 0), P2(3, 6, 20) and P3(2, 4, 6) and a view point C(0, 0, -10).

Choose the correct options.

- (A) P1 obscure P2, if viewed from C.
- (B) P2 obscure P1, if viewed from C.
- (C) P3 does not obscure P1, if viewed from C.
- (D) P2 does not obscure P3, if viewed from C.

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

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

**Options 1.1**

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **87827025035**

Option 1 ID : **87827098825**

Option 2 ID : **87827098826**

Option 3 ID : **87827098827**

Option 4 ID : **87827098828**

Status : **Answered**

Chosen Option : **1**

**Q.131** Match List - I with List - II.

**List - I**

- (A) BCNF iff
- (B) 5 NF iff
- (C) 1 NF iff
- (D) 4 NF iff

**List - II**

- (I) every JD is implied by the candidate keys
- (II) all underlying domains contain scalar values only
- (III) every MVD is implied by the candidate keys
- (IV) every FD is implied by the candidate keys

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

- (1) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (2) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (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 : **87827025057**

Option 1 ID : **87827098913**

Option 2 ID : **87827098914**

Option 3 ID : **87827098915**

Option 4 ID : **87827098916**

Status : **Answered**

Chosen Option : **1**

- Q.132** Arrange the following in ascending order :
- (A) Remainder of  $49^{16}$  when divided by 17
  - (B) Remainder of  $2^{446}$  when divided by 9
  - (C) Remainder of  $155^{17}$  when divided by 17
  - (D) Last digits of the number  $7^{45}$

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

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

**Options 1.1**

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

Question Type : MCQ  
Question ID : 87827025064  
Option 1 ID : 87827098941  
Option 2 ID : 87827098942  
Option 3 ID : 87827098943  
Option 4 ID : 87827098944  
Status : Answered  
Chosen Option : 1

- Q.133** Let  $A=\{a, b\}$  and  $L=A^*$ . Let  $x=\{a^n b^n, n>0\}$ . The languages  $L \cup X$  and  $X$  are respectively :
- (1) Not regular, Regular
  - (2) Regular, Regular
  - (3) Regular, Not regular
  - (4) Not Regular, Not Regular

**Options 1.1**

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

Question Type : MCQ  
Question ID : 87827025010  
Option 1 ID : 87827098725  
Option 2 ID : 87827098726  
Option 3 ID : 87827098727  
Option 4 ID : 87827098728  
Status : Answered  
Chosen Option : 1

**Q.134** The prototyping model has the sequence :

- (A) Customer Evaluation
- (B) Quick design
- (C) Requirements
- (D) Implement
- (E) Design

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

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025070

Option 1 ID : 87827098965

Option 2 ID : 87827098966

Option 3 ID : 87827098967

Option 4 ID : 87827098968

Status : Answered

Chosen Option : 2

**Q.135** If  $N^2 = N \times N$ , N is set of natural numbers and R is relation on  $N^2$ , s.t.  $R \subseteq N^2 \times N^2$  i.e.  $\langle x, y \rangle \in R \iff xv = yu$ , then which of the followings are TRUE ?

- (A) Reflexive
- (B) Symmetric
- (C) Transitive
- (D) Assymmetric

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

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025031

Option 1 ID : 87827098809

Option 2 ID : 87827098810

Option 3 ID : 87827098811

Option 4 ID : 87827098812

Status : Answered

Chosen Option : 1

**Q.136** The average time required to search a storage location in memory and obtain its contents is called :

- (1) Access time
- (2) Latency time
- (3) Response time
- (4) Reading time

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025017**

Option 1 ID : **87827098753**

Option 2 ID : **87827098754**

Option 3 ID : **87827098755**

Option 4 ID : **87827098756**

Status : **Answered**

Chosen Option : **1**

**Q.137** Match List - I with List - II.

**List - I**

- |                                 |   |
|---------------------------------|---|
| (A) Greedy Best first search    | (I) The space complexity as $O(d)$ where $d$ = depth of the deepest optimal solution                |
| (B) A*                          | (II) Incomplete even if the search space is finite  |
| (C) Recursive best first search | (III) Optimal if optimal solution is reachable otherwise return the best reachable optimal solution |
| (D) SMA*                        | (IV) Computation and space complexity is two light  |

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

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

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025061**

Option 1 ID : **87827098929**

Option 2 ID : **87827098930**

Option 3 ID : **87827098931**

Option 4 ID : **87827098932**

Status : **Answered**

Chosen Option : **3**

**Q.138** Which of the following is TRUE ?

- (1) The cost of searching an AVL tree is  $\theta(\log n)$  but that of binary search is  $O(n)$
- (2) The cost of searching an AVL tree is  $\theta(\log n)$  but that of complete binary tree is  $\theta(n \log n)$
- (3) The cost of searching a binary tree is  $O(\log n)$  but that of AVL tree is  $\theta(n)$
- (4) The cost of searching an AVL tree is  $\theta(n \log n)$  but that of binary search tree is  $O(n)$

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827024991**

Option 1 ID : **87827098649**

Option 2 ID : **87827098650**

Option 3 ID : **87827098651**

Option 4 ID : **87827098652**

Status : **Answered**

Chosen Option : **2**

**Q.139** Given as 4 GB ( $\approx 4.3 \times 10^9$  bytes) of virtual space and typical page size of 4 KB and each page table entry is 5 bytes. How many virtual pages would this imply ? What is the size of whole page table ?

- (1) 107500 and 20480 bytes
- (2) 215000 and 40960 bytes
- (3) 10750 and 10240 bytes
- (4) 43000 and 1024 bytes

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025006

Option 1 ID : 87827098709

Option 2 ID : 87827098710

Option 3 ID : 87827098711

Option 4 ID : 87827098712

Status : Answered

Chosen Option : 1

**Q.140** The steps for analysis and design of object oriented system.

- (A) Draw interaction diagrams
- (B) Draw state chart and object diagram
- (C) Draw use case and activity diagram
- (D) Draw component and deployment diagram
- (E) Draw class diagram

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

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

**Options 1.1**

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

Question Type : MCQ

Question ID : 87827025067

Option 1 ID : 87827098953

Option 2 ID : 87827098954

Option 3 ID : 87827098955

Option 4 ID : 87827098956

Status : Answered

Chosen Option : 1

**Comprehension:**

Food X contains 6 units of Vitamin D per gram and 7 units of Vitamin E per gram and cost is Rs 12 per gram. Food Y contains 8 units of vitamin D per gram and 12 units of Vitamin E per gram and cost is Rs 20 per gram. The daily minimum requirements of vitamin D and E are 100 units and 120 units respectively.

Suppose  $x$  is quantity (in gram) of food X,  $y$  is quantity (in gram) of food Y.

Answering the following question based on the above paragraph given.

**SubQuestion No : 141****Q.141**

The dual of the formulated LPP is :

(1)  $\text{Max } Z = 100u + 120v$   
s.t.

$$\begin{aligned}6u + 7v &\leq 12 \\8u + 12v &\leq 20 \\u, v &\geq 0\end{aligned}$$

(2)  $\text{Max } Z = 12u + 20v$   
s.t.

$$\begin{aligned}6u + 7v &\leq 100 \\8u + 12v &\leq 120 \\u, v &\geq 0\end{aligned}$$

(3)  $\text{Max } Z = 100u + 120v$   
s.t.

$$\begin{aligned}6u + 7v &\leq 12 \\8u + 7v &\leq 20 \\u, v &\text{ are unrestricted}\end{aligned}$$

(4)  $\text{Max } Z = 100u + 120v$   
s.t.

$$\begin{aligned}6u + 7v &\geq 12 \\8u + 12v &\geq 20 \\u, v &\geq 0\end{aligned}$$

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025083**

Option 1 ID : **87827099013**

Option 2 ID : **87827099014**

Option 3 ID : **87827099015**

Option 4 ID : **87827099016**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Food X contains 6 units of Vitamin D per gram and 7 units of Vitamin E per gram and cost is Rs 12 per gram. Food Y contains 8 units of vitamin D per gram and 12 units of Vitamin E per gram and cost is Rs 20 per gram. The daily minimum requirements of vitamin D and E are 100 units and 120 units respectively.

Suppose  $x$  is quantity (in gram) of food X,  $y$  is quantity (in gram) of food Y.

Answering the following question based on the above paragraph given.

**SubQuestion No : 142**

**Q.142** Which of the following constrains when formulating the LPP ?

- (1)  $6x + 7y \leq 100, 8x + 12y \leq 120, x, y \geq 0$
- (2)  $6x + 8y \leq 100, 7x + 12y \leq 120, x, y \geq 0$
- (3)  $6x + 7y \geq 100, 8x + 12y \geq 120, x, y \geq 0$
- (4)  $6x + 8y \geq 100, 7x + 12y \geq 120, x, y \geq 0$

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025081**

Option 1 ID : **87827099005**

Option 2 ID : **87827099006**

Option 3 ID : **87827099007**

Option 4 ID : **87827099008**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Food X contains 6 units of Vitamin D per gram and 7 units of Vitamin E per gram and cost is Rs 12 per gram. Food Y contains 8 units of vitamin D per gram and 12 units of Vitamin E per gram and cost is Rs 20 per gram. The daily minimum requirements of vitamin D and E are 100 units and 120 units respectively.

Suppose  $x$  is quantity (in gram) of food X,  $y$  is quantity (in gram) of food Y.

Answering the following question based on the above paragraph given.

**SubQuestion No : 143**

**Q.143** The minimum cost of food is :

- (1) 205
- (2) 250
- (3) 330
- (4) 200

**Options** 1. 1

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

Question Type : **MCQ**

Question ID : **87827025084**

Option 1 ID : **87827099017**

Option 2 ID : **87827099018**

Option 3 ID : **87827099019**

Option 4 ID : **87827099020**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Food X contains 6 units of Vitamin D per gram and 7 units of Vitamin E per gram and cost is Rs 12 per gram. Food Y contains 8 units of vitamin D per gram and 12 units of Vitamin E per gram and cost is Rs 20 per gram. The daily minimum requirements of vitamin D and E are 100 units and 120 units respectively.

Suppose  $x$  is quantity (in gram) of food X,  $y$  is quantity (in gram) of food Y.

Answering the following question based on the above paragraph given.

**SubQuestion No : 144**

**Q.144** Which of the following are quantities (in grams) of food X and Y respectively when the cost of food is minimum :

- (1) 0 and  $12\frac{1}{2}$
- (2) 15 and  $\frac{5}{4}$
- (3)  $\frac{120}{7}$  and 0
- (4) 0 and 10

**Options 1. 1**

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

Question Type : MCQ

Question ID : 87827025082

Option 1 ID : 87827099009

Option 2 ID : 87827099010

Option 3 ID : 87827099011

Option 4 ID : 87827099012

Status : Answered

Chosen Option : 1

**Comprehension:**

Food X contains 6 units of Vitamin D per gram and 7 units of Vitamin E per gram and cost is Rs 12 per gram. Food Y contains 8 units of vitamin D per gram and 12 units of Vitamin E per gram and cost is Rs 20 per gram. The daily minimum requirements of vitamin D and E are 100 units and 120 units respectively.

Suppose  $x$  is quantity (in gram) of food X,  $y$  is quantity (in gram) of food Y.

Answering the following question based on the above paragraph given.

**SubQuestion No : 145**

**Q.145** The cost function of total food is :

- (1)  $Z = 6x + 7y$
- (2)  $Z = 8x + 12y$
- (3)  $Z = 12x + 20y$
- (4)  $Z = 20x + 12y$

**Options 1. 1**

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

Question Type : MCQ

Question ID : 87827025080

Option 1 ID : 87827099001

Option 2 ID : 87827099002

Option 3 ID : 87827099003

Option 4 ID : 87827099004

Status : Answered

Chosen Option : 1

**Comprehension:**

Consider the following relations X (S, Si, C) and Y (S, P, D).

X

S	Si	C
J	1	M
B	2	N
R	3	H
T	4	G

Y

S	P	D
J	S <sub>1</sub>	CA
B	P <sub>1</sub>	AB
R	D <sub>1</sub>	DC
A	H <sub>1</sub>	MD

**SubQuestion No : 146**

**Q.146**

Find the number of tuples by applying the operation  $X \bowtie_{x.s=y.s} Y$

- (1) 1
- (2) 3
- (3) 4
- (4) 6

**Options**

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

Question Type : **MCQ**

Question ID : **87827025086**

Option 1 ID : **87827099021**

Option 2 ID : **87827099022**

Option 3 ID : **87827099023**

Option 4 ID : **87827099024**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Consider the following relations X (S, Si, C) and Y (S, P, D).

X

S	Si	C
J	1	M
B	2	N
R	3	H
T	4	G

Y

S	P	D
J	S <sub>1</sub>	CA
B	P <sub>1</sub>	AB
R	D <sub>1</sub>	DC
A	H <sub>1</sub>	MD

**SubQuestion No : 147**

**Q.147** Number of tuples by applying right outer join on relation X and Y is/are :

- (1) 16
- (2) 5
- (3) 3
- (4) 4

**Options 1.1**

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

Question Type : **MCQ**

Question ID : **87827025089**

Option 1 ID : **87827099033**

Option 2 ID : **87827099034**

Option 3 ID : **87827099035**

Option 4 ID : **87827099036**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Consider the following relations X (S, Si, C) and Y (S, P, D).

X

S	Si	C
J	1	M
B	2	N
R	3	H
T	4	G

Y

S	P	D
J	S <sub>1</sub>	CA
B	P <sub>1</sub>	AB
R	D <sub>1</sub>	DC
A	H <sub>1</sub>	MD

**SubQuestion No : 148**

**Q.148** Number of tuples obtained by applying cartesian product over X and Y are :

- (1) 16
- (2) 12
- (3) 04
- (4) 32

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025090**

Option 1 ID : **87827099037**

Option 2 ID : **87827099038**

Option 3 ID : **87827099039**

Option 4 ID : **87827099040**

Status : **Answered**

Chosen Option : 1

**Comprehension:**

Consider the following relations X (S, Si, C) and Y (S, P, D).

X

S	Si	C
J	1	M
B	2	N
R	3	H
T	4	G

Y

S	P	D
J	S <sub>1</sub>	CA
B	P <sub>1</sub>	AB
R	D <sub>1</sub>	DC
A	H <sub>1</sub>	MD

**SubQuestion No : 149**

**Q.149** Which of the following join is used to get all the tuples of relation X and Y with Null values of corresponding missing values ?

- (1) Left outer join
- (2) Right outer join
- (3) Natural join
- (4) Full outer join

**Options 1. 1**

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

Question Type : **MCQ**

Question ID : **87827025088**

Option 1 ID : **87827099029**

Option 2 ID : **87827099030**

Option 3 ID : **87827099031**

Option 4 ID : **87827099032**

Status : **Answered**

Chosen Option : **1**

**Comprehension:**

Consider the following relations X (S, Si, C) and Y (S, P, D).

X

S	Si	C
J	1	M
B	2	N
R	3	H
T	4	G

Y

S	P	D
J	S <sub>1</sub>	CA
B	P <sub>1</sub>	AB
R	D <sub>1</sub>	DC
A	H <sub>1</sub>	MD

SubQuestion No : 150

Q.150

Result of  $X \bowtie_{x.s=y.s} Y$  is :

(1)

S	Si	C	P	D
J	1	M	S <sub>1</sub>	CA
B	2	N	P <sub>1</sub>	AB
R	3	H	D <sub>1</sub>	DC
T	4	G	Null	Null

(2)

S	Si	C	P	D
J	1	M	S <sub>1</sub>	CA
B	2	N	P <sub>1</sub>	AB
R	3	H	D <sub>1</sub>	DC
A	Null	Null	H <sub>1</sub>	MD

(3)

S	Si	C	P	D
J	1	M	S <sub>1</sub>	CA
B	2	N	P <sub>1</sub>	AB
R	3	H	D <sub>1</sub>	DC
T	4	G	Null	MD
A	Null	Null	H <sub>1</sub>	Null

(4) None of these

Options 1. 1

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

Question Type : MCQ

Question ID : 87827025087

Option 1 ID : 87827099025

Option 2 ID : 87827099026

Option 3 ID : 87827099027

Option 4 ID : 87827099028

Status : Answered

Chosen Option : 1

