

## NTA UGC NET December 2025 31st Dec to 7th Jan 2026

Application No	
Candidate Name	
Roll No.	
Test Date	07/01/2026
Test Time	3:00 PM - 6:00 PM
Subject	89 Environmental Sciences

Section : General Paper

**Comprehension:**

The following table shows the marks obtained by six students A-F in six different subjects S1 to S6 having 160, 160, 120, 120, 200 and 240 as maximum marks, respectively. Based on the data in the table, answer the questions that follow:

**Students-wise Details of Marks obtained**

Student	Marks obtained in subject					
	S1 (Out of 160)	S2 (Out of 160)	S3 (Out of 120)	S4 (Out of 120)	S5 (Out of 200)	S6 (Out of 240)
A	80	84	66	56	154	150
B	120	100	84	76	136	132
C	128	72	64	70	144	160
D	84	130	96	84	104	168
E	64	128	90	92	174	70
F	70	96	60	56	164	100

**SubQuestion No : 1**

**Q.1** What is the overall respective percentages of marks scored by student A and student B, in all the subjects together?

1. 55% and 62.8%
2. 56% and 63.8%
3. 57% and 61.8%
4. 59% and 64.8%

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198713989

Option 1 ID : 61198754501

Option 2 ID : 61198754502

Option 3 ID : 61198754503

Option 4 ID : 61198754504

Status : Answered

Chosen Option : 3

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**Comprehension:**

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F	70	96	60	56	164	100

**SubQuestion No : 2**

**Q.2** What is the ratio of the total marks scored by student B in all the subjects to the total marks scored by student E in all subjects?

1. 26 : 27
2. 108 : 103
3. 16 : 17
4. 46 : 47

**Options**

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

**Question Type : MCQ**

Question ID : 61198713991

Option 1 ID : 61198754509

Option 2 ID : 61198754510

Option 3 ID : 61198754511

Option 4 ID : 61198754512

Status : Answered

Chosen Option : 1

**Comprehension:**

The following table shows the marks obtained by six students A-F in six different subjects S1 to S6 having 160, 160, 120, 120, 200 and 240 as maximum marks, respectively. Based on the data in the table, answer the questions that follow:

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**SubQuestion No : 3**

**Q.3** If for getting first division, a student needs to score minimum 65% marks in aggregate, then the number of students getting first division is:

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

**Options**

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

Question Type : MCQ

Question ID : 61198713992

Option 1 ID : 61198754513

Option 2 ID : 61198754514

Option 3 ID : 61198754515

Option 4 ID : 61198754516

Status : Answered

Chosen Option : 2

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**Comprehension:**

The following table shows the marks obtained by six students A-F in six different subjects S1 to S6 having 160, 160, 120, 120, 200 and 240 as maximum marks, respectively. Based on the data in the table, answer the questions that follow:

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E	64	128	90	92	174	70
F	70	96	60	56	164	100

**SubQuestion No : 4**

**Q.4** What is the average marks scored by all the students in the subjects S5 and subject S6, respectively?

1. 142 and 130
2. 144 and 128
3. 146 and 130
4. 148 and 126

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198713990

Option 1 ID : 61198754505

Option 2 ID : 61198754506

Option 3 ID : 61198754507

Option 4 ID : 61198754508

Status : Answered

Chosen Option : 4



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**Comprehension:**

The following table shows the marks obtained by six students A-F in six different subjects S1 to S6 having 160, 160, 120, 120, 200 and 240 as maximum marks, respectively. Based on the data in the table, answer the questions that follow:

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D	84	130	96	84	104	168
E	64	128	90	92	174	70
F	70	96	60	56	164	100

**SubQuestion No : 5**

**Q.5** The marks scored by student B and student C together in subjects S1 is approximately \_\_\_\_% more than the marks scored by student A, student D and student E together in the same subject.

1. 8.77
2. 9.66
3. 10.53
4. 11.67

**Options**

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

Question Type : MCQ  
Question ID : 61198713993  
Option 1 ID : 61198754517  
Option 2 ID : 61198754518  
Option 3 ID : 61198754519  
Option 4 ID : 61198754520  
Status : Answered  
Chosen Option : 3

Q.6 In mediated communication audience attention is considered as a:

1. Human liability
2. Scarce resource
3. Visibility product
4. Regulated liability

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714004

Option 1 ID : 61198754561

Option 2 ID : 61198754562

Option 3 ID : 61198754563

Option 4 ID : 61198754564

Status : Answered

Chosen Option : 2

Q.7 Which of the following statements are logically equivalent?

- A. All non-bovines are cats
- B. No cats are bovines
- C. All cats are non-bovines
- D. No bovines are cats

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714016

Option 1 ID : 61198754609

Option 2 ID : 61198754610

Option 3 ID : 61198754611

Option 4 ID : 61198754612

Status : Answered

Chosen Option : 3

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

LIST-I (Commission/Committee)		LIST-II (Chairman)	
A. First Indian Education Commission	I. T. Raleigh		
B. Indian University Commission	II. M. E. Sadar		
C. Calcutta University Commission	III. J. E. D. Bethune		
D. Council of Education	IV. W. W. Hunter		

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 : 61198714033

Option 1 ID : 61198754677

Option 2 ID : 61198754678

Option 3 ID : 61198754679

Option 4 ID : 61198754680

Status : Answered

Chosen Option : 3

**Q.9** An overestimated prediction about the probability of an event based on frequency of the event's past occurrences is known as:

1. Hindsight bias
2. Availability heuristic
3. Representativeness heuristic
4. Divergent thinking

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198713995

Option 1 ID : 61198754525

Option 2 ID : 61198754526

Option 3 ID : 61198754527

Option 4 ID : 61198754528

Status : Answered

Chosen Option : 1

**Q.10** Identify the discrete variables.

- A. Number of students in each class of a school
- B. Number of heads obtained in ten tosses of a coin
- C. Marks scored by students in an objective type examination with negative marking for incorrect responses
- D. Height of students in a school

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714001

Option 1 ID : 61198754549

Option 2 ID : 61198754550

Option 3 ID : 61198754551

Option 4 ID : 61198754552

Status : Answered

Chosen Option : 2

**Q.11** Which of the following are the core social and emotional skills and competencies of self-regulation that are listed under Collaborative for Academic, Social and Emotional Learning (CASEL)?

- A. Self-Management
- B. Self-Awareness
- C. Relationship Skills
- D. Social awareness
- E. Responsible decision making

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198713994

Option 1 ID : 61198754521

Option 2 ID : 61198754522

Option 3 ID : 61198754523

Option 4 ID : 61198754524

Status : Answered

Chosen Option : 1

**Q.12** If the statement 'No fishes are mammals' is given as false, then which of the following proposition can be immediately inferred to be true?

1. Some fishes are mammals
2. All fishes are mammals
3. Some fishes are not mammals
4. All mammals are fishes

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714015

Option 1 ID : 61198754605

Option 2 ID : 61198754606

Option 3 ID : 61198754607

Option 4 ID : 61198754608

Status : Answered

Chosen Option : 2

**Q.13** Geothermal power plants are much like fossil and nuclear plants with exception of no requirements of:

- A. Vapour dominated hydrothermal resources
- B. Boiler
- C. Fission reactor
- D. Turbine generator

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714026

Option 1 ID : 61198754649

Option 2 ID : 61198754650

Option 3 ID : 61198754651

Option 4 ID : 61198754652

Status : Answered

Chosen Option : 4

**Q.14** Which of the following is labelled as the second self?

1. The telephone
2. The radio
3. The television
4. The computer

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714005

Option 1 ID : 61198754565

Option 2 ID : 61198754566

Option 3 ID : 61198754567

Option 4 ID : 61198754568

Status : Answered

Chosen Option : 1

**Q.15** What is the correct increasing order of Global Warming Potential (GWP) of the following Green House Gases (GHGs)?

- A. CFC - 11 (Chlorofluorocarbon - 11)
- B. CH<sub>4</sub> (Methane)
- C. CO<sub>2</sub> (Carbon dioxide)
- D. N<sub>2</sub>O (Nitrous oxide)

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714027

Option 1 ID : 61198754653

Option 2 ID : 61198754654

Option 3 ID : 61198754655

Option 4 ID : 61198754656

Status : Answered

Chosen Option : 2

**Q.16** In a research study, a group that experiences the manipulated independent variables is generally known as:

1. Placebo group
2. Control group
3. Independent group
4. Experimental group

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714000

Option 1 ID : 61198754545

Option 2 ID : 61198754546

Option 3 ID : 61198754547

Option 4 ID : 61198754548

Status : Answered

Chosen Option : 4

**Q.17** The Simla conference of 1901 was described by Lord Curzon as:

1. High-level Education Commission
2. High Power Education Commission
3. Secret Education Commission
4. Confidential Education Commission

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714029

Option 1 ID : 61198754661

Option 2 ID : 61198754662

Option 3 ID : 61198754663

Option 4 ID : 61198754664

Status : Answered

Chosen Option : 1

Q.18 Identify the correct statements.

- A. Panel study is a type of longitudinal research.
- B. Cohort study is a type of longitudinal research.
- C. Panel study is a type of cross-sectional research.
- D. Cohort study is a type of cross-sectional research.

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198713999  
Option 1 ID : 61198754541  
Option 2 ID : 61198754542  
Option 3 ID : 61198754543  
Option 4 ID : 61198754544  
Status : Answered  
Chosen Option : 4

Q.19 Which of the following is a kind of wave generated during an earthquake?

- 1. N-Wave
- 2. O-Wave
- 3. P-Wave
- 4. Q-Wave

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714025  
Option 1 ID : 61198754645  
Option 2 ID : 61198754646  
Option 3 ID : 61198754647  
Option 4 ID : 61198754648  
Status : Answered  
Chosen Option : 3

**Q.20** A car travels from city A to city B with a constant speed. If the speed of the car is increased by 20 km/h it will reach destination 1 hour earlier. On the other hand, if its speed decreases by 20 km/h, it reaches 2 hours later than scheduled time. What is the usual time if it travels with routine speed?

1. 2 hr
2. 4 hr
3. 8 hr
4. 10 hr

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714011

Option 1 ID : 61198754589

Option 2 ID : 61198754590

Option 3 ID : 61198754591

Option 4 ID : 61198754592

Status : Answered

Chosen Option : 3

**Q.21** The 'interactive society' is characterized by the following:

- A. Non-electronic communication
- B. Networked integration
- C. Multi-media
- D. Digitisation
- E. Uncultured media 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 : 61198714006

Option 1 ID : 61198754569

Option 2 ID : 61198754570

Option 3 ID : 61198754571

Option 4 ID : 61198754572

Status : Answered

Chosen Option : 2

**Q.22** Which of the following statements are true?

- A. Validity is an attribute of deductive argument.
- B. Validity can be attributed to any single proposition.
- C. In a valid argument all of its premises have to be true.
- D. A valid deductive argument can not have all true premises and a false conclusion.

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714017

Option 1 ID : 61198754613

Option 2 ID : 61198754614

Option 3 ID : 61198754615

Option 4 ID : 61198754616

Status : Answered

Chosen Option : 4

**Q.23** Which of the following arguments is fallacious because the middle term is present in both positive and negative instances and violates the rule that it should not be present in the negative instances?

- 1. Fire is cold because it is a substance
- 2. The hill has fire because it is knowable
- 3. Sound is eternal because it is produced
- 4. Wherever there is fire there is smoke

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714018

Option 1 ID : 61198754617

Option 2 ID : 61198754618

Option 3 ID : 61198754619

Option 4 ID : 61198754620

Status : Answered

Chosen Option : 3

**Q.24** In which of the water treatment processes additional BOD (Biological Oxygen Demand) is provided to remove the biological material?

1. Primary Treatment Process
2. Secondary Treatment Process
3. Tertiary Treatment Process
4. Advanced Treatment Process

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714028

Option 1 ID : 61198754657

Option 2 ID : 61198754658

Option 3 ID : 61198754659

Option 4 ID : 61198754660

Status : Answered

Chosen Option : 2

**Q.25** Which of the following statements are true with reference to the evolution of WWW?

- A. Web 2.0 is the "participative social web"
- B. Web 1.0 is the "ready-only web"
- C. Three main applications of Web 2.0 are YouTube, Wikis and Blogs
- D. Web 3.0 is the "read, write, execute web"

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714022

Option 1 ID : 61198754633

Option 2 ID : 61198754634

Option 3 ID : 61198754635

Option 4 ID : 61198754636

Status : Answered

Chosen Option : 2

**Q.26** Which of the following ancient university was situated on the banks of the river Krishna in Vidarbha?

1. Sridhanya Katak
2. Takshashila
3. Nalanda
4. Sakya

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714030

Option 1 ID : 61198754665

Option 2 ID : 61198754666

Option 3 ID : 61198754667

Option 4 ID : 61198754668

Status : Answered

Chosen Option : 2

**Q.27** Which of the following can be categorized under electronically-based communication?

- A. Typographic
- B. Audio-visual
- C. Computer-mediated
- D. Personal conversation
- E. Cylinder press

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

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

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714007

Option 1 ID : 61198754573

Option 2 ID : 61198754574

Option 3 ID : 61198754575

Option 4 ID : 61198754576

Status : Answered

Chosen Option : 1

**Q.28** "Just look around yourself, everything around us is so intelligently organized. Obviously this world must have been created by an intelligent God." Which of the following fallacy is committed in the above argument?

1. Hasty Generalization
2. Begging the question
3. Equivocation
4. Slippery slope

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714014

Option 1 ID : 61198754601

Option 2 ID : 61198754602

Option 3 ID : 61198754603

Option 4 ID : 61198754604

Status : Answered

Chosen Option : 3

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

LIST-I (Term)	LIST-II (Description)
A. Natural sign	I. Less certainty of response in artificial signs
B. Artificial sign	II. Those things that are represented in nature
C. Signal	III. Those that are constructed in the social world
D. Symbol	IV. Artificial signs that produce predictable responses

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714008

Option 1 ID : 61198754577

Option 2 ID : 61198754578

Option 3 ID : 61198754579

Option 4 ID : 61198754580

Status : Answered

Chosen Option : 1

Q.30 Which of the following are the prominent features of Self-directed learning?

- A. Passive learning
- B. Extension of learning
- C. Taking ownership of learning
- D. Teacher-centered learning
- E. Self-monitoring

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198713997  
Option 1 ID : 61198754533  
Option 2 ID : 61198754534  
Option 3 ID : 61198754535  
Option 4 ID : 61198754536  
Status : Answered  
Chosen Option : 3



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**Q.31** Which of the following universities were considered as Institutions of National Importance at the commencement of constitution?

- A. Benares Hindu University
- B. Aligarh Muslim University
- C. Delhi University
- D. Hyderabad University
- E. Calicut University

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714031

Option 1 ID : 61198754669

Option 2 ID : 61198754670

Option 3 ID : 61198754671

Option 4 ID : 61198754672

Status : Answered

Chosen Option : 3

**Q.32** In a certain coding language, if the word 'DRIVE' is coded as 'GOLSH', then the word 'COINS' will be coded as:

- 1. FKKOU
- 2. EKLPV
- 3. FLLKV
- 4. ELKPU

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714013

Option 1 ID : 61198754597

Option 2 ID : 61198754598

Option 3 ID : 61198754599

Option 4 ID : 61198754600

Status : Answered

Chosen Option : 3

Q.33 When did India become party to Convention on Biodiversity (CBD)?

1. 1992
2. 1993
3. 1994
4. 1995

Options

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

Question Type : MCQ

Question ID : 61198714024

Option 1 ID : 61198754641

Option 2 ID : 61198754642

Option 3 ID : 61198754643

Option 4 ID : 61198754644

Status : Answered

Chosen Option : 1

The logo for Adda247 features a large, stylized letter 'A' in a light pink color. Below it, the words 'Adda247' are written in a bold, black, sans-serif font. The '247' is enclosed in a rectangular box with a black border. The entire logo is set against a white background.

**Q.34** Environmental education must include topics of:

- A. Personal hygiene
- B. Biological diversity
- C. Waste management
- D. Pollution
- E. Wildlife conservation

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714032  
Option 1 ID : 61198754673  
Option 2 ID : 61198754674  
Option 3 ID : 61198754675  
Option 4 ID : 61198754676  
Status : Answered  
Chosen Option : 2

**Q.35** During a live online math tutorial, a teacher wants to demonstrate problem-solving techniques and equations visually. Which software tool would best support this instructional method?

- 1. Adobe Illustrator
- 2. Camtasia
- 3. Jamboard
- 4. Kahoot

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198713998  
Option 1 ID : 61198754537  
Option 2 ID : 61198754538  
Option 3 ID : 61198754539  
Option 4 ID : 61198754540  
Status : Answered  
Chosen Option : 3

**Q.36** For aiming a target a person gets one rupee each time when he hits it and loses one rupee when he misses it. If he gets Rs 40 after aiming at the target one hundred times, then how many times did he miss the target?

- 1. 30
- 2. 40
- 3. 60
- 4. 70

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714009

Option 1 ID : 61198754581

Option 2 ID : 61198754582

Option 3 ID : 61198754583

Option 4 ID : 61198754584

Status : Answered

Chosen Option : 2

**Q.37** Arrange the following statistical measures in increasing order of their values for a given dataset.

- A. 6<sup>th</sup> decile
- B. 3<sup>rd</sup> quartile
- C. Median
- D. 70th percentile

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714002

Option 1 ID : 61198754553

Option 2 ID : 61198754554

Option 3 ID : 61198754555

Option 4 ID : 61198754556

Status : Answered

Chosen Option : 3

**Q.38** If  $(L)_M$  represents a number L in base M number system, then identify the correct ascending order of the following numbers A-D, when converted to decimal number system.

- A.  $(333.2)_4$
- B.  $(111111.11)_2$
- C.  $(77.2)_8$
- D.  $(3F.6)_{16}$

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

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

**Options 1. 1**

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

Question Type : MCQ  
Question ID : 61198714023  
Option 1 ID : 61198754637  
Option 2 ID : 61198754638  
Option 3 ID : 61198754639  
Option 4 ID : 61198754640  
Status : Answered  
Chosen Option : 1

**Q.39** An exciting new evolution of the World Wide Web (WWW) providing machine-readable and machine-comprehensible information far beyond the current capabilities is called:

- 1. Dynamic Web
- 2. Web Browser
- 3. Semantic Web
- 4. Static Web

**Options 1. 1**

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

Question Type : MCQ  
Question ID : 61198714019  
Option 1 ID : 61198754621  
Option 2 ID : 61198754622  
Option 3 ID : 61198754623  
Option 4 ID : 61198754624  
Status : Answered  
Chosen Option : 1

**Q.40** The present ages of three persons are in the proportion 4 : 5 : 7. Seven years ago, the sum of their ages was 59 years. The present age of youngest of them is

- 1. 15 years
- 2. 20 years
- 3. 25 years
- 4. 35 years

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714012

Option 1 ID : 61198754593

Option 2 ID : 61198754594

Option 3 ID : 61198754595

Option 4 ID : 61198754596

Status : Answered

Chosen Option : 3

**Q.41** The SWAYAMPRABHA channel : 05 with the theme of 'Information, Communication and Management Studies' is named as:

- 1. SANSKRITI
- 2. SAARASWAT
- 3. PRABANDHAN
- 4. PRABODH

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198713996

Option 1 ID : 61198754529

Option 2 ID : 61198754530

Option 3 ID : 61198754531

Option 4 ID : 61198754532

Status : Answered

Chosen Option : 3

**Q.42** Three successive discounts of 10%, 25% and 35% on the marked price of an item are equivalent to a single discount of:

1. ~ 56.1%
2. ~ 43.9%
3. 70%
4. ~ 50.2%

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714010

Option 1 ID : 61198754585

Option 2 ID : 61198754586

Option 3 ID : 61198754587

Option 4 ID : 61198754588

Status : Answered

Chosen Option : 1

**Q.43** What is Bluetooth technology?

1. It means the technology can travel with the user; for instance, users can download software, email messages, and web pages onto a laptop or other mobile device
2. It refers to any type of operation accomplished without the use of a hard-wired connection
3. It refers to a wireless Personal Area Network (PAN) technology that transmits signal over short distances among cell phones, computers and other devices
4. It provides communication for devices owned by a single user that work over a short distance

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714020

Option 1 ID : 61198754625

Option 2 ID : 61198754626

Option 3 ID : 61198754627

Option 4 ID : 61198754628

Status : Answered

Chosen Option : 3

Q.44 Match the LIST-I with LIST-II in the context of MS-EXCEL

LIST-I (Cell Reference)		LIST-II (Definition and Features)
A. \$D\$5	I.	Mixed reference. Row is fixed and column is changeable when fill handle is used
B. D\$5	II.	Mixed reference. Column is fixed and row is changeable when fill handle is used
C. D5	III.	Absolute reference. Column and row are fixed when fill handle is used
D. \$D5	IV.	Relative reference. Column and row are changeable when fill handle is used

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714021

Option 1 ID : 61198754629

Option 2 ID : 61198754630

Option 3 ID : 61198754631

Option 4 ID : 61198754632

Status : Answered

Chosen Option : 3

A  
Adda247

Q.45 student's t-test is useful for testing the

- A. significance of difference between two sample means
- B. independence of attributes
- C. significance of correlation coefficient
- D. analysis of variance

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 : 61198714003

Option 1 ID : 61198754557

Option 2 ID : 61198754558

Option 3 ID : 61198754559

Option 4 ID : 61198754560

Status : Answered

Chosen Option : 1

**Adda247**

**Comprehension:**

Read the passage given below and answer the question that follow:

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**SubQuestion No : 46**

**Q.46** Which of the following predominantly worked with the lower caste communities in India?

1. The Church Missionary Society (CMS)
2. American Missionary Society (AMS)
3. The London Missionary Society (LMS)
4. The Society for the Propagation of the Gospel (SPG)

**Options**

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

Question Type : MCQ

Question ID : 61198714039

Option 1 ID : 61198754697

Option 2 ID : 61198754698

Option 3 ID : 61198754699

Option 4 ID : 61198754700

Status : Answered

Chosen Option : 2

**Comprehension:**

Read the passage given below and answer the question that follow:

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**SubQuestion No : 47**

**Q.47** When did Christian missionaries start their activities in the Indian subcontinent?

1. 1600s
2. 1700s
3. 1800s
4. 1900s

**Options**

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

Question Type : MCQ

Question ID : 61198714037

Option 1 ID : 61198754689

Option 2 ID : 61198754690

Option 3 ID : 61198754691

Option 4 ID : 61198754692

Status : Answered

Chosen Option : 2

**Comprehension:**

Read the passage given below and answer the question that follow:

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**SubQuestion No : 48**

**Q.48** Which of the following societies was involved in teaching in high schools and colleges of North India?

1. American Missionary Society
2. European Missionary Society
3. Anglican Missionary Societies
4. Central Indian Missionary Society

**Options**

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

Question Type : MCQ

Question ID : 61198714035

Option 1 ID : 61198754681

Option 2 ID : 61198754682

Option 3 ID : 61198754683

Option 4 ID : 61198754684

Status : Answered

Chosen Option : 3

**Comprehension:**

Read the passage given below and answer the question that follow:

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**SubQuestion No : 49**

**Q.49** 'Educational missionaries' initially find western learning as:

1. A way to spread business
2. A way to improve community health
3. A way to have a political control
4. A way to spread Christianity

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 61198714036

Option 1 ID : 61198754685

Option 2 ID : 61198754686

Option 3 ID : 61198754687

Option 4 ID : 61198754688

Status : Answered

Chosen Option : 4

**Comprehension:**

Read the passage given below and answer the question that follow:

Before delving into the role that missionary schools played in the emergence of Indian nationalism, it is necessary to understand the broader context in which Christian missionaries had been religious actors in the Indian subcontinent since the 1700s. With the rise of British power under the East India Company, and later the crown, missionaries of various denominations made India one of their largest areas of activity. This was especially true after the amendment of the company's charter in 1813, which allowed missionaries unhindered access to the company's domains. But it was through their involvement in new forms of education that the missionaries made a significant and perhaps the most lasting impact.

Many 'educational missionaries' initially saw Western learning and knowledge as a stepping stone to spreading Christianity. By the 1870s, however, this approach to the conversion of India's Brahmins and other high castes had largely fallen out of favor. By then, the most active Anglican missionary societies - The Church Missionary Society (CMS), The London Missionary Society (LMS), The Society for the Propagation of the Gospel (SPG), and the Cambridge Mission to Delhi (CMD) - were mostly involved in teaching in high schools and colleges across North India. In the United Provinces, India's most populous province, these societies ran half of the high schools and colleges. American missionary societies, by contrast, worked overwhelmingly with the lower-caste communities and were far less involved in higher levels of education. Anglican mission schools, therefore, interacted with the very groups and communities who would go on to lead the Indian nationalist movement.

**SubQuestion No : 50**

**Q.50** Which of the following was not an active Anglican missionary society?

1. The Church Missionary Society (CMS)
2. The London Missionary Society (LMS)
3. The Society for the Propagation of the Gospel (SPG)
4. American Missionary Society (AMS)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 61198714038

Option 1 ID : 61198754693

Option 2 ID : 61198754694

Option 3 ID : 61198754695

Option 4 ID : 61198754696

Status : Answered

Chosen Option : 3

Section : Environmental Sciences

**Q.51** Match the LIST-I with LIST-II

LIST-I (Purpose/Application)		LIST-II (Statistical tests)	
A. Testing the significance of regression coefficients	I.	Durbin Watson test	
B. Comparing more than two sample means	II.	Chi square test	
C. Testing the goodness of fit	III.	t-test	
D. Testing the significance of autocorrelation in a time series	IV.	F-test	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714041

Option 1 ID : 61198754705

Option 2 ID : 61198754706

Option 3 ID : 61198754707

Option 4 ID : 61198754708

Status : Answered

Chosen Option : 3

**Q.52** Match the LIST-I with LIST-II

LIST-I EIA Term		LIST-II Related Function	
A. Environment Management Plan	I.	Identify key issues and determine boundaries of the project	
B. Impact Analysis	II.	Environmental mitigation measures	
C. Screening	III.	Risk Assessment	
D. Scoping	IV.	Initial Environmental Examination	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714057

Option 1 ID : 61198754769

Option 2 ID : 61198754770

Option 3 ID : 61198754771

Option 4 ID : 61198754772

Status : Answered

Chosen Option : 4

**Q.53** A 25 mL sample of treated waste water requires 175 mL of distilled water to reduce the odor to a level that is just detectable. What is the threshold odor number (TON)?

1. 7.0
2. 8.0
3. 150.0
4. 200.0

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714077

Option 1 ID : 61198754849

Option 2 ID : 61198754850

Option 3 ID : 61198754851

Option 4 ID : 61198754852

Status : Answered

Chosen Option : 3

**Q.54** Arrange the correlation coefficients computed from the information given below in increasing order:

- A.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 16$ ,  $\sum(x_i - \bar{x})^2 = 64$ ,  $\sum(y_i - \bar{y})^2 = 25$
- B.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 20$ ,  $\sum(x_i - \bar{x})^2 = 36$ ,  $\sum(y_i - \bar{y})^2 = 49$
- C.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 18$ ,  $\sum(x_i - \bar{x})^2 = 25$ ,  $\sum(y_i - \bar{y})^2 = 64$
- D.  $\sum(x_i - \bar{x})(y_i - \bar{y}) = 24$ ,  $\sum(x_i - \bar{x})^2 = 49$ ,  $\sum(y_i - \bar{y})^2 = 64$

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714060

Option 1 ID : 61198754781

Option 2 ID : 61198754782

Option 3 ID : 61198754783

Option 4 ID : 61198754784

Status : Answered

Chosen Option : 3

**Q.55** Arrange the following halocarbons according to their atmospheric lifetimes in ascending order.

- A.  $\text{CFCl}_3$
- B.  $\text{CHF}_2\text{Cl}$
- C.  $\text{CF}_2\text{ClBr}$
- D.  $\text{C}_2\text{F}_6$

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714061

Option 1 ID : 61198754785

Option 2 ID : 61198754786

Option 3 ID : 61198754787

Option 4 ID : 61198754788

Status : Answered

Chosen Option : 2

**Q.56** Which of the following environmental impact analysis methods uses weighted and scaled values of environmental parameters for pre and post development environment quality?

- 1. Leopold Matrix Method
- 2. Battelle Environmental Evaluation System
- 3. Moore Impact Matrix Method
- 4. Sorensen Network Analysis Method

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714085

Option 1 ID : 61198754881

Option 2 ID : 61198754882

Option 3 ID : 61198754883

Option 4 ID : 61198754884

Status : Answered

Chosen Option : 1

**Q.57** Arrange the following metamorphic rocks in order of increasing grade of metamorphism.

- A. Schist
- B. Phyllite
- C. Slate
- D. Gneiss

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

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

**Options** 1. 1

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

Question Type : MCQ  
Question ID : 61198714058  
Option 1 ID : 61198754773  
Option 2 ID : 61198754774  
Option 3 ID : 61198754775  
Option 4 ID : 61198754776  
Status : Answered  
Chosen Option : 3

**Q.58** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to Lotka-Volterra model of population growth, the prey and predator populations never reach their equilibrium values at the same time.

**Reason R:** There is a phase difference of  $2\pi$  between the prey and the predator populations.

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

- 1. Both A and R are correct and R is the correct explanation of A
- 2. Both A and R are correct but R is NOT the correct explanation of A
- 3. A is correct but R is not correct
- 4. A is not correct but R is correct

**Options** 1. 1

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

Question Type : MCQ  
Question ID : 61198714095  
Option 1 ID : 61198754921  
Option 2 ID : 61198754922  
Option 3 ID : 61198754923  
Option 4 ID : 61198754924  
Status : Answered  
Chosen Option : 1

**Q.59** A hydropower dam has its Head = 200 m and water reservoir area  $4 \times 10^{10} \text{ m}^2$ . If the discharge rate is  $950 \text{ m}^3 \text{ s}^{-1}$ , what will be its electrical capacity?  
(Take  $g = 9.8 \text{ ms}^{-2}$ )

1. 2142 MW
2. 1862 MW
3. 931 MW
4. 7458 MW

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714092

Option 1 ID : 61198754909

Option 2 ID : 61198754910

Option 3 ID : 61198754911

Option 4 ID : 61198754912

Status : Answered

Chosen Option : 3

**Q.60** Soil-water in equilibrium with  $\text{CO}_2$  in soil-air has pH-values often below 5.0. This acidity arises mainly from the following sources:

- A. Organic acid produced during degradation of organic matter
- B. Release of  $\text{H}^+$  by plants in exchange for nutritive base cations
- C. Sulphide oxidation
- D. Nitrification processes, where  $\text{NH}_4^+$  is converted into  $\text{NO}_3^-$

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714118

Option 1 ID : 61198755013

Option 2 ID : 61198755014

Option 3 ID : 61198755015

Option 4 ID : 61198755016

Status : Answered

Chosen Option : 3

**Q.61** Identify the correct statements:

- A. Energy available at each successive trophic level always decreases.
- B. Nutrient cycles in a tropical rain forest are closed systems.
- C. The P/R ratio in a climax community is always greater than 1.
- D. Ecosystem services include regulatory, provisioning and supporting services, but not cultural services.
- E. r-species are opportunists while k-species are competitors.

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

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

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714123

Option 1 ID : 61198755033

Option 2 ID : 61198755034

Option 3 ID : 61198755035

Option 4 ID : 61198755036

Status : Answered

Chosen Option : 2

A  
**Adda247**

Q.62 Identify the correct statements about biofuels.

- A. Transesterification is involved in production of biodiesel.
- B. Biogas is produced from organic wastes using aerobic bacteria.
- C. Biohydrogen can be produced using hydrogenase by microalgae.
- D. Bioethanol with high octane rating is produced using wood chips.
- E. Photoautotrophic bacteria are used for bioethanol production.

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714121  
Option 1 ID : 61198755025  
Option 2 ID : 61198755026  
Option 3 ID : 61198755027  
Option 4 ID : 61198755028  
Status : Answered  
Chosen Option : 3

Q.63 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** An aquiclude supports a perched watertable above the main watertable.

**Reason R:** Aquicludes are relatively impermeable beds that hinder water movement.

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

- 1. Both A and R are correct and R is the correct explanation of A
- 2. Both A and R are correct but R is NOT the correct explanation of A
- 3. A is correct but R is not correct
- 4. A is not correct but R is correct

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714104  
Option 1 ID : 61198754957  
Option 2 ID : 61198754958  
Option 3 ID : 61198754959  
Option 4 ID : 61198754960  
Status : Answered  
Chosen Option : 1

**Q.64** Which of the following is/are true regarding the ideal detector for gas chromatography?

- A. Good stability and reproducibility.
- B. A linear response to solutes that extends over several orders of magnitude.
- C. A temperature range from room temperature to at least 400°C.
- D. A short response time that is independent of flow rate.

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714120

Option 1 ID : 61198755021

Option 2 ID : 61198755022

Option 3 ID : 61198755023

Option 4 ID : 61198755024

Status : Answered

Chosen Option : 3

**Q.65** Match the LIST-I with LIST-II

LIST-I Stages of Wilson Cycle		LIST-II Example of stages	
A. Embryonic	I.	Red sea	
B. Juvenile	II.	Pacific ocean	
C. Mature	III.	East African rift valley	
D. Declining	IV.	Atlantic ocean	

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714048

Option 1 ID : 61198754733

Option 2 ID : 61198754734

Option 3 ID : 61198754735

Option 4 ID : 61198754736

Status : Answered

Chosen Option : 2

Q.66 Match the LIST-I with LIST-II

LIST-I (Soil Type)		LIST-II (Dominant Salt)	
A. Calcareous soils	I. NaCl		
B. Saline soils	II. Al <sub>2</sub> O <sub>3</sub>		
C. Laterites	III. Na <sub>2</sub> CO <sub>3</sub>		
D. Sodic soils	IV. CaCO <sub>3</sub>		

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714054

Option 1 ID : 61198754757

Option 2 ID : 61198754758

Option 3 ID : 61198754759

Option 4 ID : 61198754760

Status : Answered

Chosen Option : 3

Q.67 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R****Assertion A:** In composting of municipal solid waste, thermophilic microbes initiate the process.**Reason R:** High temperature is required to kill the pathogens.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714108

Option 1 ID : 61198754973

Option 2 ID : 61198754974

Option 3 ID : 61198754975

Option 4 ID : 61198754976

Status : Answered

Chosen Option : 4

**Q.68** Suppose that 0.5 mg of a precipitate is lost as a result of being washed with 200 mL of wash liquid. If the precipitate weighs 500 mg, what is the relative error due to the solubility loss?

1. 0.01%
2. 0.1%
3. 0.25%
4. 25%

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714082

Option 1 ID : 61198754869

Option 2 ID : 61198754870

Option 3 ID : 61198754871

Option 4 ID : 61198754872

Status : Answered

Chosen Option : 2

**Q.69** Arrange the following biomass sources in increasing order of the available energy per unit mass (MJ/kg).

- A. Municipal sewage (dry)
- B. Straw (grain crops)
- C. Animal waste (dry)
- D. Wood chips, saw mill dust and forest residue

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

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

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714074

Option 1 ID : 61198754837

Option 2 ID : 61198754838

Option 3 ID : 61198754839

Option 4 ID : 61198754840

Status : Answered

Chosen Option : 2

Q.70 Match the LIST-I with LIST-II

LIST-I (Greenhouse gas)		LIST-II (Fundamental Vibrational Mode)	
A. Water Vapor	I.	15	
B. Methane	II.	3	
C. Sulphur Hexafluoride	III.	9	
D. Carbon dioxide	IV.	4	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714053

Option 1 ID : 61198754753

Option 2 ID : 61198754754

Option 3 ID : 61198754755

Option 4 ID : 61198754756

Status : Answered

Chosen Option : 3

Q.71 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**.**Assertion A:** The turn over rate of marine autotrophs is faster than that of terrestrial autotrophs.**Reason R:** Terrestrial autotrophs contribute less to the structural matrix of the ecosystem as compared to marine autotrophs.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714111

Option 1 ID : 61198754985

Option 2 ID : 61198754986

Option 3 ID : 61198754987

Option 4 ID : 61198754988

Status : Answered

Chosen Option : 1

**Q.72** A baghouse fabric filter consists of bags that are 0.35 m in diameter and 8.0 m long. The bag house receives 11 m<sup>3</sup>/s of particulate laden air and the appropriate filtering velocity is 2.0 m/minute for a continuous cleaning operation. How many bags are there?

- 1. 34
- 2. 38
- 3. 40
- 4. 42

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714088

Option 1 ID : 61198754893

Option 2 ID : 61198754894

Option 3 ID : 61198754895

Option 4 ID : 61198754896

Status : Answered

Chosen Option : 3

**Q.73** Mean of a standard normal variable is always \_\_\_\_\_. 

- 1. equal to 1
- 2. less than 1
- 3. greater than 1
- 4. equal to zero

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714075

Option 1 ID : 61198754841

Option 2 ID : 61198754842

Option 3 ID : 61198754843

Option 4 ID : 61198754844

Status : Answered

Chosen Option : 3

**Q.74** Arrange the following minerals in the decreasing order of their relative hardness as per Moh's scale.

- A. Apatite
- B. Calcite
- C. Quartz
- D. Gypsum

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714072

Option 1 ID : 61198754829

Option 2 ID : 61198754830

Option 3 ID : 61198754831

Option 4 ID : 61198754832

Status : Answered

Chosen Option : 3

**Q.75** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Bioremediation involves environmental modification to improve aeration and nutrients in the contaminated site, and microbial seeding using xenobiotics degrading microbes.

**Reason R:** Environmental modification boosts plant growth and microbial seeding improves overall microbial biomass in the contaminated site.

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

- 1. Both A and R are correct and R is the correct explanation of A
- 2. Both A and R are correct but R is NOT the correct explanation of A
- 3. A is correct but R is not correct
- 4. A is not correct but R is correct

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714099

Option 1 ID : 61198754937

Option 2 ID : 61198754938

Option 3 ID : 61198754939

Option 4 ID : 61198754940

Status : Answered

Chosen Option : 2

**Q.76** Arrange the following atmospheric species in increasing order of their lifetimes in the atmosphere.

- A. CO
- B.  $\text{CH}_3\text{SCH}_3$
- C. HCHO
- D.  $\text{N}_2\text{O}$

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714063

Option 1 ID : 61198754793

Option 2 ID : 61198754794

Option 3 ID : 61198754795

Option 4 ID : 61198754796

Status : Answered

Chosen Option : 3

**Q.77** The major advantages of Ocean Thermal Energy Conversion (OTEC) are:

- A. High efficiency
- B. Steady power without fluctuations and independent of vagaries of weather
- C. Low installation cost
- D. Creation of some useful by-products such as desalinated water

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714128

Option 1 ID : 61198755053

Option 2 ID : 61198755054

Option 3 ID : 61198755055

Option 4 ID : 61198755056

Status : Answered

Chosen Option : 1

**Q.78** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** DDT caused large scale mortality among fish eating birds.

**Reason R:** DDT tends to undergo bioaccumulation and biomagnification.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714098

Option 1 ID : 61198754933

Option 2 ID : 61198754934

Option 3 ID : 61198754935

Option 4 ID : 61198754936

Status : Answered

Chosen Option : 1

**Q.79** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The transitional zone between two or more communities has more number of species and population density at the junction.

**Reason R:** Boundaries offer opportunities for interaction through invasion, migration and inter-specific competition.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options** 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714100

Option 1 ID : 61198754941

Option 2 ID : 61198754942

Option 3 ID : 61198754943

Option 4 ID : 61198754944

Status : Answered

Chosen Option : 2

**Q.80** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The hydroxyl radical is one of the most important reactive species in the troposphere.

**Reason R:** It readily reacts with N<sub>2</sub>, O<sub>2</sub> and CO<sub>2</sub>.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

**Options** 1. 1

2. 2  
3. 3  
4. 4

Question Type : MCQ

Question ID : 61198714097

Option 1 ID : 61198754929

Option 2 ID : 61198754930

Option 3 ID : 61198754931

Option 4 ID : 61198754932

Status : Answered

Chosen Option : 3



Q.81 Identify the correct hierarchy of the following (from top to bottom):

- A. Biosphere
- B. Population
- C. Community
- D. Species
- E. Ecosystem

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

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

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714065

Option 1 ID : 61198754801

Option 2 ID : 61198754802

Option 3 ID : 61198754803

Option 4 ID : 61198754804

Status : Answered

Chosen Option : 1

**Adda247**

Q.82 Identify the correct sequence in EIA process out of the following:

- A. Impact evaluation
- B. Scoping
- C. Impact mitigation
- D. Impact identification
- E. Impact prediction

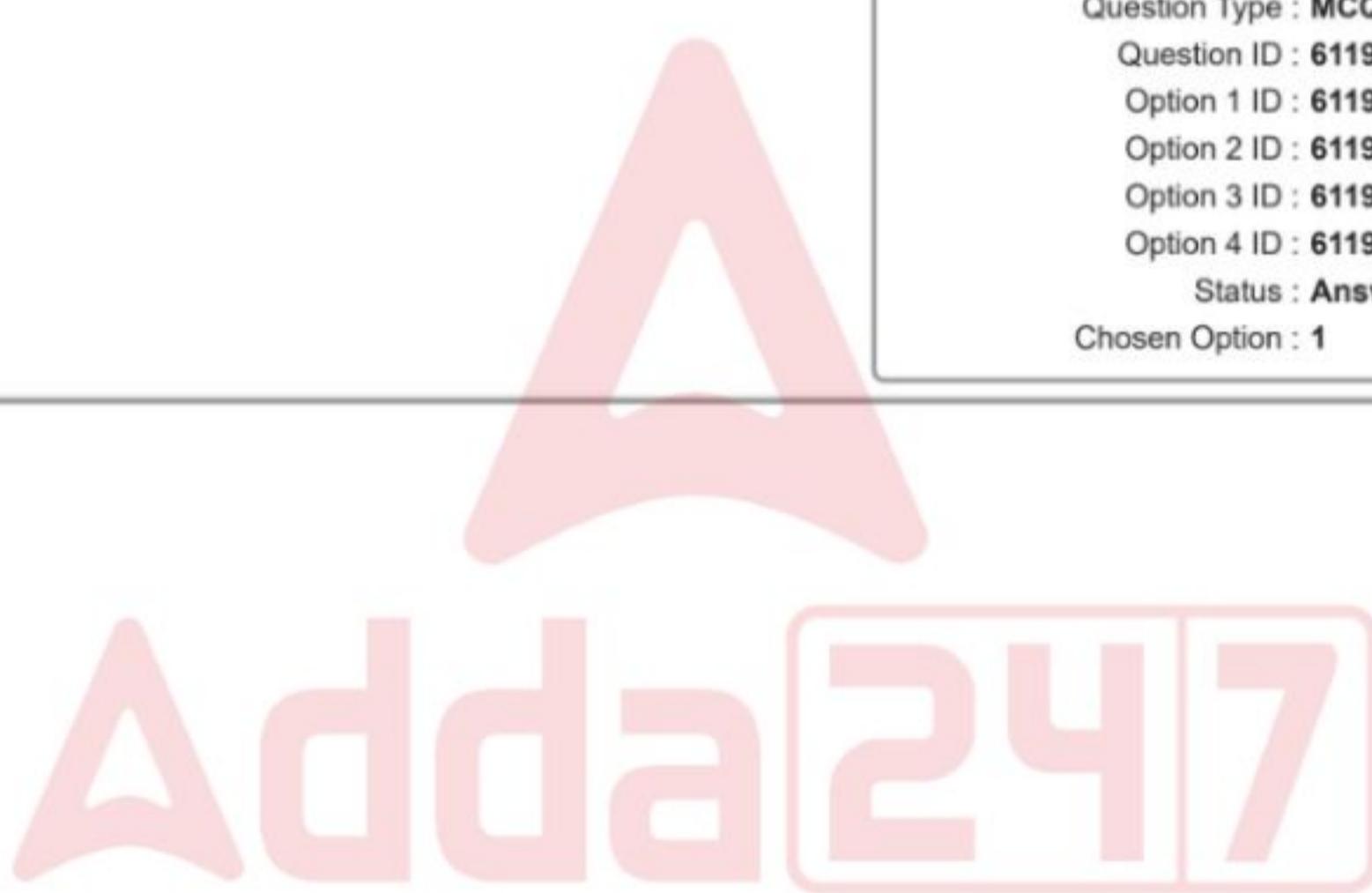
Choose the **correct** answer from the options given below:

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714066  
Option 1 ID : 61198754805  
Option 2 ID : 61198754806  
Option 3 ID : 61198754807  
Option 4 ID : 61198754808  
Status : Answered  
Chosen Option : 1



**Adda247**

**Q.83** Arrange the following countries in increasing order of their CO<sub>2</sub> emission (M Ton/year) as per current status.

- A. India
- B. China
- C. United Kingdom
- D. Russia

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714071

Option 1 ID : 61198754825

Option 2 ID : 61198754826

Option 3 ID : 61198754827

Option 4 ID : 61198754828

Status : Answered

Chosen Option : 2

**Q.84** Which of the following correctly represents the total Kjeldahl's nitrogen (TKN)?

- 1.  $NH_3 + NH_4^+ + NO_2^- + NO_3^-$
- 2.  $Organic\ N + NH_3 + NH_4^+$
- 3.  $NH_3 + NH_4^+$
- 4.  $Organic\ N + NH_3 + NH_4^+ + NO_2^- + NO_3^-$

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714078

Option 1 ID : 61198754853

Option 2 ID : 61198754854

Option 3 ID : 61198754855

Option 4 ID : 61198754856

Status : Answered

Chosen Option : 4

Q.85 Darcy's law is applicable in which of the following conditions:

- A. The flow of liquid is steady
- B. Soil is unsaturated
- C. Flow through soil is turbulent
- D. Relation between flow rate and hydraulic gradient is linear

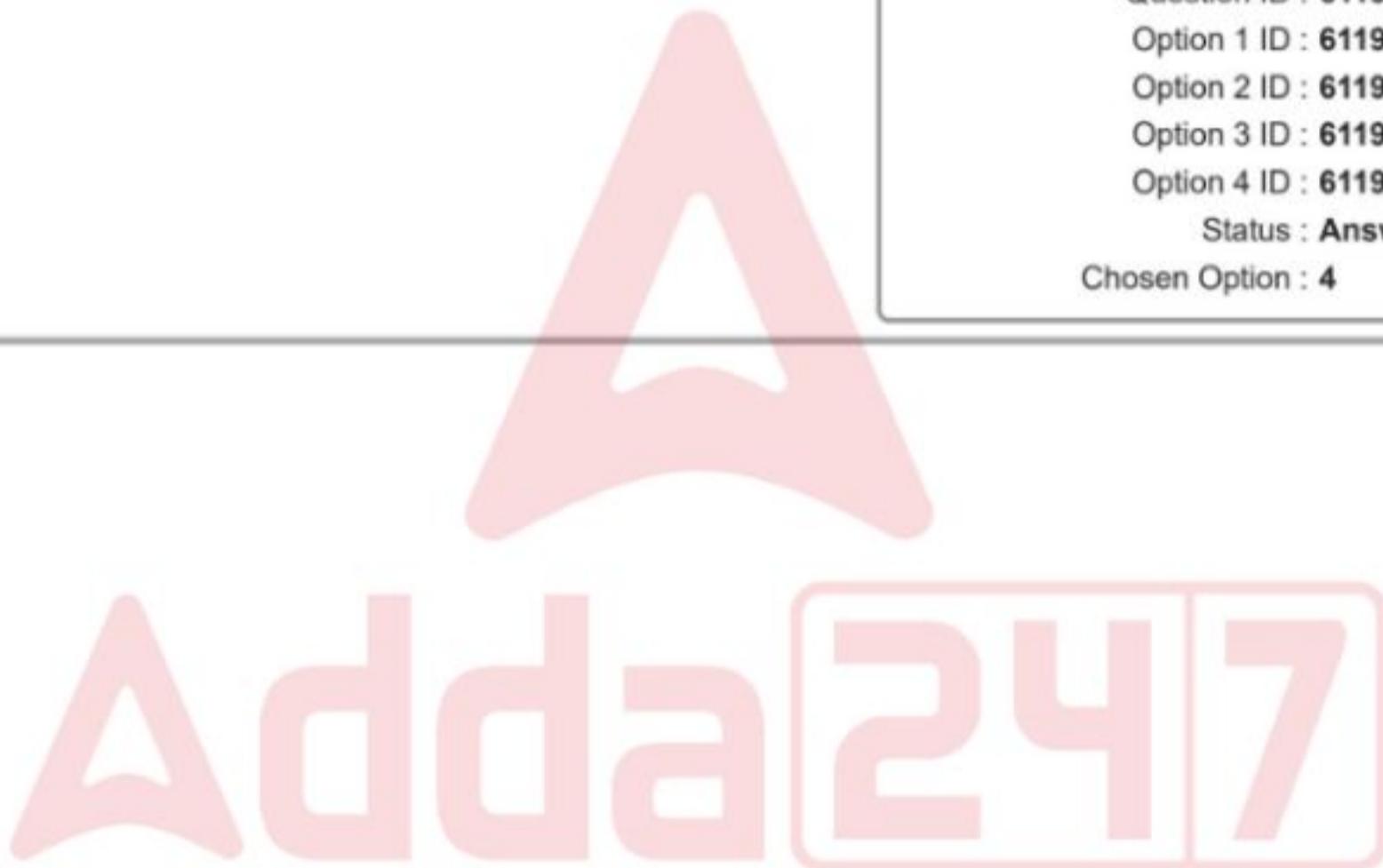
Choose the **correct** answer from the options given below:

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714126  
Option 1 ID : 61198755045  
Option 2 ID : 61198755046  
Option 3 ID : 61198755047  
Option 4 ID : 61198755048  
Status : Answered  
Chosen Option : 4

**Adda247**

**Q.86** Arrange the following intervals of a normally distributed variable 'X' in terms of increasing probabilities, if it is given that  $\mu = 16$ ,  $\sigma = 3$

- A.  $13 \leq X \leq 19$
- B.  $16 \leq X \leq 22$
- C.  $19 \leq X \leq 22$
- D.  $7 \leq X \leq 13$

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714059

Option 1 ID : 61198754777

Option 2 ID : 61198754778

Option 3 ID : 61198754779

Option 4 ID : 61198754780

Status : Answered

Chosen Option : 2

**Q.87** For an ideal horizontal axis wind turbine, what will be the value of power coefficient ( $C_p$ ), if the fractional wind speed decrease at the turbine is  $\frac{1}{2}$ ?

- 1.  $\frac{1}{2}$
- 2.  $\frac{1}{4}$
- 3.  $\frac{1}{8}$
- 4.  $\frac{16}{27}$

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714091

Option 1 ID : 61198754905

Option 2 ID : 61198754906

Option 3 ID : 61198754907

Option 4 ID : 61198754908

Status : Answered

Chosen Option : 3

Q.88 Match the LIST-I with LIST-II

LIST-I (Biomass Conversion Methods)		LIST-II (Biofuels/Energy)	
A. Physical Method	I. Biogas		
B. Incineration	II. Gas/Oil/Char		
C. Thermochemical Method	III. Briquetts and Pellets		
D. Biochemical Method	IV. Direct Heat		

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

1. A-I, B-IV, C-III, D-II
2. A-III, B-II, C-IV, D-I
3. A-IV, B-III, C-II, 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 : 61198714049

Option 1 ID : 61198754737

Option 2 ID : 61198754738

Option 3 ID : 61198754739

Option 4 ID : 61198754740

Status : Answered

Chosen Option : 3

Q.89 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R****Assertion A:** Gallium Arsenide (GaAs) is an attractive Photo-Voltaic (PV) cell material.**Reason R:** GaAs has a direct band gap of 2.43 eV.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714106

Option 1 ID : 61198754965

Option 2 ID : 61198754966

Option 3 ID : 61198754967

Option 4 ID : 61198754968

Status : Answered

Chosen Option : 1

**Q.90** Environment Protection (End-of-Life Vehicles) Rules 2025 shall apply to:

- A. Waste Batteries covered under the Battery Waste Management Rules, 2022.
- B. E-waste as covered under E-waste (Management) Rules, 2022.
- C. Registered owners of vehicles.
- D. Plastic packaging as covered under the Plastic Waste Management Rules, 2016.
- E. Registered vehicle scrapping facility.

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714127

Option 1 ID : 61198755049

Option 2 ID : 61198755050

Option 3 ID : 61198755051

Option 4 ID : 61198755052

Status : Answered

Chosen Option : 2

**Q.91** Arrange the following metabolic stages in correct order of their occurrence in the biogasification of organic wastes:

- A. Acetogenesis
- B. Acidogenesis
- C. Hydrolysis
- D. Methanogenesis

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714067

Option 1 ID : 61198754809

Option 2 ID : 61198754810

Option 3 ID : 61198754811

Option 4 ID : 61198754812

Status : Answered

Chosen Option : 3

**Q.92** An electrostatic precipitator with  $6000\text{ m}^2$  of collector plate area of the collection electrodes has a flow rate of the gas  $300\text{ m}^3\text{s}^{-1}$ . If the drift velocity of the particles towards the collecting electrode is  $0.15\text{ ms}^{-1}$ , what is the efficiency of collection of the electrostatic precipitator?

- 1. 99%
- 2. 98%
- 3. 97%
- 4. 95%

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714094

Option 1 ID : 61198754917

Option 2 ID : 61198754918

Option 3 ID : 61198754919

Option 4 ID : 61198754920

Status : Answered

Chosen Option : 3

**Q.93** Which of the following is/are main limitations of tidal energy?

- A. Economic recovery of energy from tides is site specific.
- B. Tidal plants disrupt marine life and ecology at the site (location).
- C. Changing tidal range produces changing power.
- D. The turbines are required to operate at variable head.

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

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

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714129

Option 1 ID : 61198755057

Option 2 ID : 61198755058

Option 3 ID : 61198755059

Option 4 ID : 61198755060

Status : Answered

Chosen Option : 3

**Q.94** The value of Cation Exchange Capacity is maximum among which of the following clay minerals?

1. Kaolinite
2. Illite
3. Montmorillonite
4. Vermiculite

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714086

Option 1 ID : 61198754885

Option 2 ID : 61198754886

Option 3 ID : 61198754887

Option 4 ID : 61198754888

Status : Answered

Chosen Option : 3

**Q.95** Match the LIST-I with LIST-II

LIST-I (Name of Disease)	LIST-II (Disease Symptom)
A. Fluorosis	I. Skin lesions
B. Arsenocosis	II. Blueness of skin
C. Minamata disease	III. Skeletal deformity
D. Methemoglobinemia	IV. Neurological disorder

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714051

Option 1 ID : 61198754745

Option 2 ID : 61198754746

Option 3 ID : 61198754747

Option 4 ID : 61198754748

Status : Answered

Chosen Option : 3

**Q.96** At a certain location with latitude  $\Phi = 45^\circ\text{N}$ , the horizontal gradient of sea level pressure is 5 mb per 100 km. What is the geostrophic wind speed at the location? (Assume density of air =  $1.25 \text{ kg m}^{-3}$  and angular velocity of earth =  $7.29 \times 10^{-5} \text{ rad/s}$ )

1.  $\sim 10 \text{ ms}^{-1}$
2.  $\sim 20 \text{ ms}^{-1}$
3.  $\sim 30 \text{ ms}^{-1}$
4.  $\sim 40 \text{ ms}^{-1}$

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714093

Option 1 ID : 61198754913

Option 2 ID : 61198754914

Option 3 ID : 61198754915

Option 4 ID : 61198754916

Status : Answered

Chosen Option : 2

**Q.97** The rate of formation of disinfection byproducts (DBPs) during water treatment is dependent on:

- A. Presence of organic precursors
- B. Free chlorine concentration
- C. Bromide concentration
- D. pH
- E. Temperature

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714116

Option 1 ID : 61198755005

Option 2 ID : 61198755006

Option 3 ID : 61198755007

Option 4 ID : 61198755008

Status : Answered

Chosen Option : 3

**Q.98** Arrange the following minerals in correct sequence according to the continuous series of crystallization in the Bowen's reaction series.

- A. Labradorite
- B. Oligoclase
- C. Andesine
- D. Bytownite

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714068

Option 1 ID : 61198754813

Option 2 ID : 61198754814

Option 3 ID : 61198754815

Option 4 ID : 61198754816

Status : Answered

Chosen Option : 4

**Q.99** Arrange the density (numbers/m<sup>2</sup>) of organisms in terrestrial ecosystem (meadow) in increasing order.

- A. Herbaceous angiosperms
- B. Birds and mammals
- C. Bacteria and Fungi
- D. Soil arthropods, annelids and nematodes

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714073

Option 1 ID : 61198754833

Option 2 ID : 61198754834

Option 3 ID : 61198754835

Option 4 ID : 61198754836

Status : Answered

Chosen Option : 3

Q.100 Match the LIST-I with LIST-II

LIST-I Term		LIST-II Characteristics
A. Hypolimnion	I.	The middle layer of a lake where temperature drops rapidly with depth.
B. Epilimnion	II.	Lighted photic zone of ocean.
C. Metalimnion	III.	The warm upper layer of a lake.
D. Epipelagic	IV.	The cold, dense and dark bottom layer of a lake.

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714055

Option 1 ID : 61198754761

Option 2 ID : 61198754762

Option 3 ID : 61198754763

Option 4 ID : 61198754764

Status : Answered

Chosen Option : 3

Q.101 Arrange the following layers that make up a typical oceanic crust from top to bottom.

- A. Gabbro
- B. Basaltic Pillow Lava
- C. Deep-sea sediment
- D. Sheeted dike complex

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714069

Option 1 ID : 61198754817

Option 2 ID : 61198754818

Option 3 ID : 61198754819

Option 4 ID : 61198754820

Status : Answered

Chosen Option : 4

Q.102 Match the LIST-I with LIST-II

LIST-I Radioactive Parent		LIST-II Half-life value	
A. Rubidium-87	I.	~ 4.5 billion years	
B. Potassium-40	II.	~ 47 billion years	
C. Uranium-238	III.	~ 1.3 billion years	
D. Carbon-14	IV.	~ 5730 years	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714040

Option 1 ID : 61198754701

Option 2 ID : 61198754702

Option 3 ID : 61198754703

Option 4 ID : 61198754704

Status : Answered

Chosen Option : 3

Q.103 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**.**Assertion A:** Cloudy nights in the monsoon season favour the formation of urban heat island.**Reason R:** Water vapours absorb strongly in the long wave region.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714110

Option 1 ID : 61198754981

Option 2 ID : 61198754982

Option 3 ID : 61198754983

Option 4 ID : 61198754984

Status : Answered

Chosen Option : 2

Q.104 Which of the following pesticides show the highest persistence in soils due to low biodegradability?

1. Organophosphates
2. Carbamates
3. Pyrethroids
4. Organochlorines

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714083

Option 1 ID : 61198754873

Option 2 ID : 61198754874

Option 3 ID : 61198754875

Option 4 ID : 61198754876

Status : Answered

Chosen Option : 1

Q.105 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** The magnitude of saturated adiabatic lapse rate is always less than that of the dry adiabatic lapse rate.

**Reason R:** The rate of change of saturation mixing ratio with temperature is always negative.

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

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714105

Option 1 ID : 61198754961

Option 2 ID : 61198754962

Option 3 ID : 61198754963

Option 4 ID : 61198754964

Status : Answered

Chosen Option : 3

**Q.106** Identify the waste incinerator(s) commonly categorized according to combustion chamber:

- A. Rotary kiln
- B. Moving grate
- C. Fixed-hearth
- D. Fluidized-bed

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714117

Option 1 ID : 61198755009

Option 2 ID : 61198755010

Option 3 ID : 61198755011

Option 4 ID : 61198755012

Status : Answered

Chosen Option : 3

**Q.107** Which of the following biogeochemical cycles can be most aptly called both sedimentary and gaseous?

- 1. Carbon Cycle
- 2. Sulphur Cycle
- 3. Nitrogen Cycle
- 4. Phosphorus Cycle

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714084

Option 1 ID : 61198754877

Option 2 ID : 61198754878

Option 3 ID : 61198754879

Option 4 ID : 61198754880

Status : Answered

Chosen Option : 3

Q.108 Match the LIST-I with LIST-II

LIST-I (Fuels)		LIST-II (Typical energy content (MJ/kg))	
A. Crude Oil	I.	27	
B. Wood (dry)	II.	16-20	
C. Coal (Anthracite)	III.	32-33	
D. Bio-ethanol	IV.	44	

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

1. A-III, B-II, C-IV, D-I
2. A-IV, B-II, C-III, 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 : 61198714050

Option 1 ID : 61198754741

Option 2 ID : 61198754742

Option 3 ID : 61198754743

Option 4 ID : 61198754744

Status : Answered

Chosen Option : 1

Q.109 Which of the following is desirable with reference to linear regression models?

1. homoscedasticity
2. multicollinearity
3. autocorrelation among the residuals
4. correlation between residuals and independent variables

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714076

Option 1 ID : 61198754845

Option 2 ID : 61198754846

Option 3 ID : 61198754847

Option 4 ID : 61198754848

Status : Answered

Chosen Option : 4

**Q.110** Along which of these plate boundaries interactions, one can notice the formation of accretionary prism/wedge.

1. Mid Oceanic Ridge / Oceanic Plate divergence boundary
2. Transform fault boundary
3. Continent - Continent convergence boundary
4. Ocean - Continent convergence boundary

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714087

Option 1 ID : 61198754889

Option 2 ID : 61198754890

Option 3 ID : 61198754891

Option 4 ID : 61198754892

Status : Answered

Chosen Option : 4

**Q.111** Match the LIST-I with LIST-II

LIST-I (Ecological Concept)	LIST-II (Proponents)
A. Ecosystem	I. Whittaker
B. Ecosystem Services	II. Myers
C. $\alpha$ , $\beta$ , $\gamma$ diversity	III. Costanza
D. Hot spot of biodiversity	IV. Tansley

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714056

Option 1 ID : 61198754765

Option 2 ID : 61198754766

Option 3 ID : 61198754767

Option 4 ID : 61198754768

Status : Answered

Chosen Option : 1

Q.112 Match the LIST-I with LIST-II

LIST-I Soil Orders		LIST-II Typical Soils	
A. Histosols		I. Conifer forest soils	
B. Oxisols		II. Organic soils	
C. Spodosols		III. Swelling clay soils	
D. Vertisols		IV. Tropical forest soils	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714047

Option 1 ID : 61198754729

Option 2 ID : 61198754730

Option 3 ID : 61198754731

Option 4 ID : 61198754732

Status : Answered

Chosen Option : 3



Q.113 Arrange the following in the correct sequence of ecological succession.

- A. Lichen
- B. Bare Rock
- C. Forest
- D. Shrubs
- E. Grasses & Sedges

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714064  
Option 1 ID : 61198754797  
Option 2 ID : 61198754798  
Option 3 ID : 61198754799  
Option 4 ID : 61198754800  
Status : Answered  
Chosen Option : 1



**Adda247**

Q.114 Match the LIST-I with LIST-II

LIST-I (Plastic Label)		LIST-II (Type of Plastic Material)
A.	7	I. Polyethylene Terephthalate
B.	1	II. Polypropylene
C.	5	III. Low Density Polyethylene
D.	4	IV. Acrylonitrile Butadiene Styrene/Mixed Plastic

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714043

Option 1 ID : 61198754713

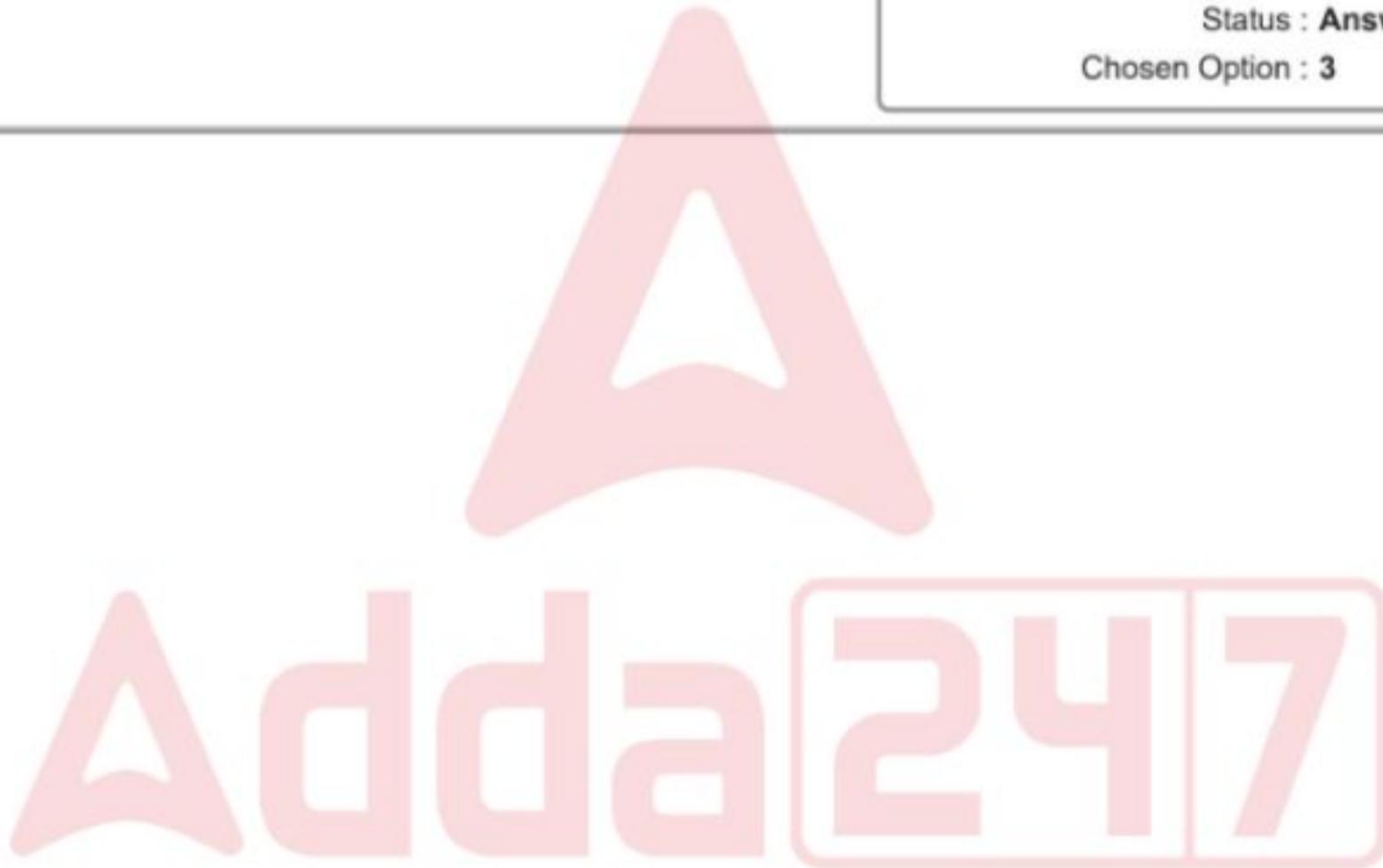
Option 2 ID : 61198754714

Option 3 ID : 61198754715

Option 4 ID : 61198754716

Status : Answered

Chosen Option : 3



**Q.115** Which of the following detectors are best suited for HPLC?

- A. Mass spectrometer (MS)
- B. Thermal Conductivity
- C. Absorbance
- D. Flame ionization

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

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

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714119

Option 1 ID : 61198755017

Option 2 ID : 61198755018

Option 3 ID : 61198755019

Option 4 ID : 61198755020

Status : Answered

Chosen Option : 3

**Q.116** Perfluorooctanoic acid (PFOA) is one of the persistent "Forever Chemicals (PFAS)" found in water. What is the Maximum Contaminant Level (MCL) for PFOA in drinking water as recommended by US Environmental Protection Agency (EPA).

- 1. 10 parts per trillion (ppt)
- 2. 4 parts per trillion (ppt)
- 3. 20 parts per trillion (ppt)
- 4. 50 parts per trillion (ppt)

Options 1. 1

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

Question Type : MCQ

Question ID : 61198714080

Option 1 ID : 61198754861

Option 2 ID : 61198754862

Option 3 ID : 61198754863

Option 4 ID : 61198754864

Status : Answered

Chosen Option : 3

Q.117 Match the LIST-I with LIST-II

LIST-I Characteristics		LIST-II Biomes	
A. Tropical grasslands with scattered trees, loamy sand soils	I. Tundra		
B. Tropical humid, tall trees, nutrient poor and acidic soils	II. Desert		
C. Polar, low temperature, treeless, permafrost	III. Savanna		
D. Sub-tropical, evaporation more than precipitation, sparse vegetation	IV. Tropical Rainforest		

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714046

Option 1 ID : 61198754725

Option 2 ID : 61198754726

Option 3 ID : 61198754727

Option 4 ID : 61198754728

Status : Answered

Chosen Option : 2

Q.118 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R****Assertion A:** Attenuation of anionic species in soil is less than that of cationic species.**Reason R:** Soil surfaces lack anion exchanging sites.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714109

Option 1 ID : 61198754977

Option 2 ID : 61198754978

Option 3 ID : 61198754979

Option 4 ID : 61198754980

Status : Answered

Chosen Option : 3

Q.119 Identify the active species of chlorine in the lower polar stratosphere.

- A. HCl
- B. Cl
- C. ClONO<sub>2</sub>
- D. ClO

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

1. A and B only
2. C and D 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 : 61198714115  
Option 1 ID : 61198755001  
Option 2 ID : 61198755002  
Option 3 ID : 61198755003  
Option 4 ID : 61198755004  
Status : Answered  
Chosen Option : 2



**Adda247**

Q.120 Identify the continuous probability distributions among the following:

- A. Binomial
- B. Uniform
- C. Hypergeometric
- D. Normal

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

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714114  
Option 1 ID : 61198754997  
Option 2 ID : 61198754998  
Option 3 ID : 61198754999  
Option 4 ID : 61198755000  
Status : Answered  
Chosen Option : 3

A large, semi-transparent watermark of the Adda247 logo is centered on the page. The logo consists of a stylized red 'A' above the text 'Adda247' in a bold, red, sans-serif font. The '247' is enclosed in a rectangular box with a thin red border.

**Q.121** Arrange the following layers of the atmosphere in terms of decreasing mean free paths of molecules/ions existing there.

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714062

Option 1 ID : 61198754789

Option 2 ID : 61198754790

Option 3 ID : 61198754791

Option 4 ID : 61198754792

Status : Answered

Chosen Option : 1

**Q.122** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Orthophosphate is most available to plants at nearly neutral pH values.

**Reason R:** The orthophosphate ion is relatively more soluble than hydrogen phosphates due to its higher charge.

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

- 1. Both A and R are correct and R is the correct explanation of A
- 2. Both A and R are correct but R is NOT the correct explanation of A
- 3. A is correct but R is not correct
- 4. A is not correct but R is correct

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714103

Option 1 ID : 61198754953

Option 2 ID : 61198754954

Option 3 ID : 61198754955

Option 4 ID : 61198754956

Status : Answered

Chosen Option : 2

Q.123 Match the LIST-I with LIST-II

LIST-I (Particulate Control Devices)		LIST-II (Suitable Particle size range ( $\mu\text{m}$ ))	
A. Gravitational Settling Chamber	I. $\geq 50$	II. $< 1$	
B. Centrifugal Collector		III. $\geq 10$	
C. Wet Collector (Spray tower)		IV. 5 - 25	
D. Electrostatic Precipitator			

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714052

Option 1 ID : 61198754749

Option 2 ID : 61198754750

Option 3 ID : 61198754751

Option 4 ID : 61198754752

Status : Answered

Chosen Option : 2

Q.124 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R****Assertion A:** In contrast to a fission reactor, a fusion reactor can not melt down.**Reason R:** If anything goes wrong, the plasma will collapse and fusion will stop.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714107

Option 1 ID : 61198754969

Option 2 ID : 61198754970

Option 3 ID : 61198754971

Option 4 ID : 61198754972

Status : Answered

Chosen Option : 4

Q.125 Match the LIST-I with LIST-II

LIST-I Biomedical Waste		LIST-II Color of Collection Bag/Container	
A. Intravenous tubes	I.	Yellow	
B. Medicine vials	II.	White	
C. Human Anatomical Waste	III.	Red	
D. Blades	IV.	Blue	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714045

Option 1 ID : 61198754721

Option 2 ID : 61198754722

Option 3 ID : 61198754723

Option 4 ID : 61198754724

Status : Answered

Chosen Option : 1

Q.126 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R****Assertion A:**  $\alpha$ -quartz,  $\beta$ -quartz, tridymite and cristobalite show Polymorphism.**Reason R:** Two substances are polymorphous if they have similar crystal structure but different chemical formulas.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714102

Option 1 ID : 61198754949

Option 2 ID : 61198754950

Option 3 ID : 61198754951

Option 4 ID : 61198754952

Status : Answered

Chosen Option : 4

**Q.127** If air contains water vapor with a mixing ratio of  $6.0 \text{ gkg}^{-1}$  and the total pressure is 1025 mb, the vapor pressure is (Assume the ratio of molecular weight of water and the apparent molecular weight of dry air to be 0.6)

1. 1014.75 mb
2. 10.25 mb
3. 1.025 mb
4. 9.0 mb

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714090

Option 1 ID : 61198754901

Option 2 ID : 61198754902

Option 3 ID : 61198754903

Option 4 ID : 61198754904

Status : Answered

Chosen Option : 2

**Q.128** Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** According to the oxygen sag model, the dissolved oxygen concentration reaches minimum value in a stream of water, at some point downstream from the point of discharge of the waste.

**Reason R:** The rate of deoxygenation due to microbial decomposition of the waste is always greater than the rate of reaeration of the stream.

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

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714096

Option 1 ID : 61198754925

Option 2 ID : 61198754926

Option 3 ID : 61198754927

Option 4 ID : 61198754928

Status : Answered

Chosen Option : 3

**Q.129** Arrange the following elements in decreasing order of their relative abundance in the whole Earth (%).

- A. Iron
- B. Oxygen
- C. Silicon
- D. Magnesium
- E. Nickel

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

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

**Options** 1. 1

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

Question Type : MCQ

Question ID : 61198714070

Option 1 ID : 61198754821

Option 2 ID : 61198754822

Option 3 ID : 61198754823

Option 4 ID : 61198754824

Status : Answered

Chosen Option : 1



Q.130 Identify the correct statements:

- A. Wetland ecosystems store and purify water.
- B. Coral reefs, rich in calcareous materials, have very low productivity.
- C. Chaparral ecosystems show excellent resilience stability.
- D. Arctic ecosystems have small food chains.
- E. Nutrient deficient estuarine ecosystems have low species diversity.

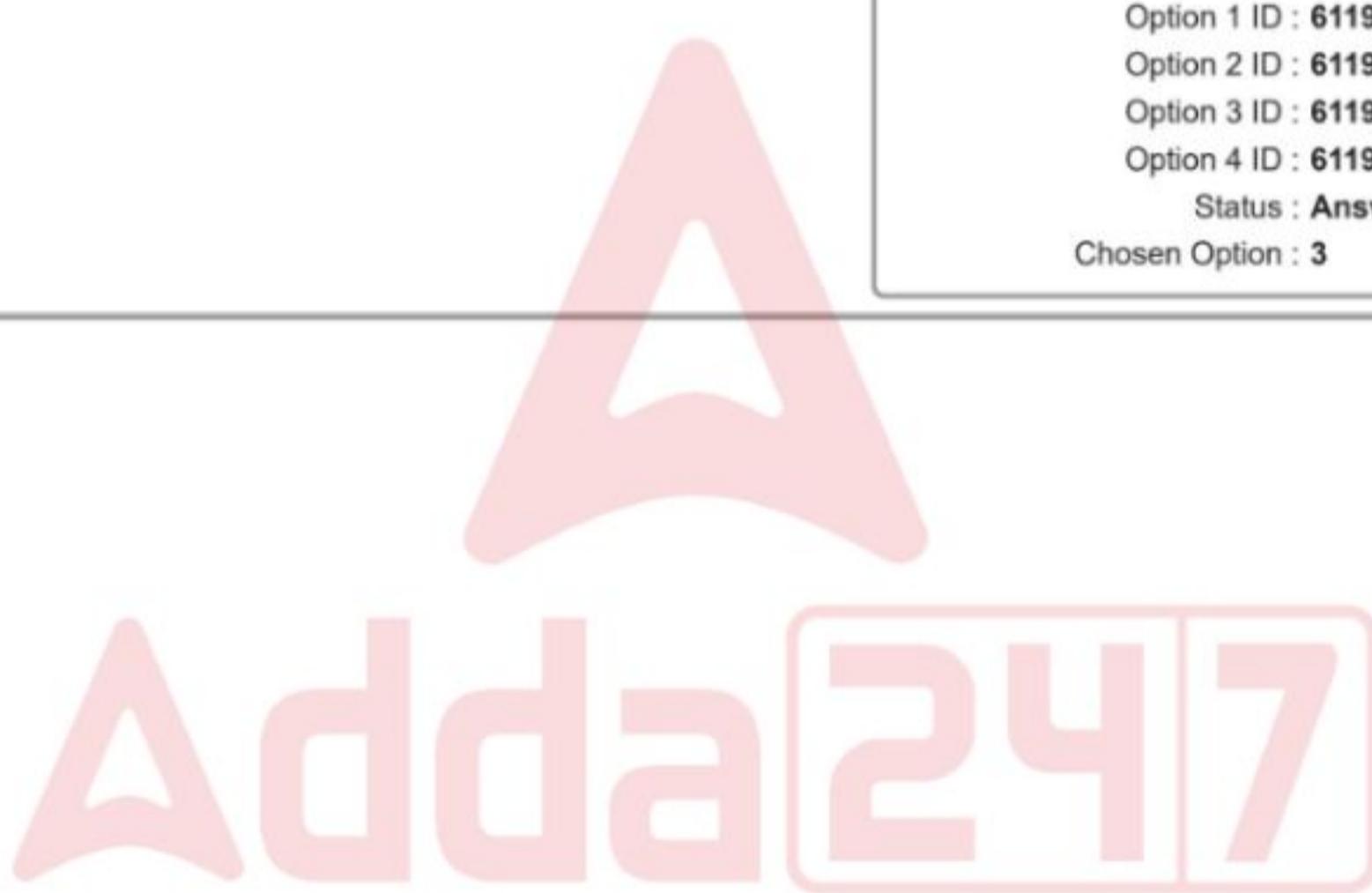
Choose the **correct** answer from the options given below:

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

Options 1. 1

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

Question Type : MCQ  
Question ID : 61198714122  
Option 1 ID : 61198755029  
Option 2 ID : 61198755030  
Option 3 ID : 61198755031  
Option 4 ID : 61198755032  
Status : Answered  
Chosen Option : 3



**Adda247**

**Q.131** Identify the correct statement about plastic recycling:

- A. PET type plastics are significantly recycled worldwide.
- B. Polystyrene cups, bottles and plates have a high recycling rate.
- C. Thermoset plastics are readily recycled.
- D. Plastics can absorb materials like oils and pesticides that can stay in recycled plastic.

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

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

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714125

Option 1 ID : 61198755041

Option 2 ID : 61198755042

Option 3 ID : 61198755043

Option 4 ID : 61198755044

Status : Answered

Chosen Option : 3

**Q.132** Which of the following correctly represents the percentage base saturation in soils, given that CEC stands for cation exchange capacity?

- 1.  $\frac{Ca^{2+} + Mg^{2+} + K^+ + Na^+}{CEC} \times 100$
- 2.  $\frac{Ca^{2+} + Mg^{2+}}{CEC} \times 100$
- 3.  $\frac{Ca^{2+} + Mg^{2+} - K^+ - Na^+}{CEC} \times 100$
- 4.  $\frac{K^+ + Na^+ - Ca^{2+} - Mg^{2+}}{CEC} \times 100$

**Options 1. 1**

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

Question Type : MCQ

Question ID : 61198714081

Option 1 ID : 61198754865

Option 2 ID : 61198754866

Option 3 ID : 61198754867

Option 4 ID : 61198754868

Status : Answered

Chosen Option : 3

Q.133 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Pollutants can be detected and quantified using biosensors.

**Reason R:** On interaction of specific biomolecules with chemicals, transducers release readable signals.

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

1. Both **A** and **R** are correct and **R** is the correct explanation of **A**
2. Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
3. **A** is correct but **R** is not correct
4. **A** is not correct but **R** is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714112

Option 1 ID : 61198754989

Option 2 ID : 61198754990

Option 3 ID : 61198754991

Option 4 ID : 61198754992

Status : Answered

Chosen Option : 3

Q.134 Match the LIST-I with LIST-II

LIST-I		LIST-II	
Total sum of squares (TSS)	Error sum of squares (ESS)	Coefficient of determination ( $R^2$ )	
A. ESS = 30 TSS = 80	I.	~ 0.63	
B. ESS = 40 TSS = 90	II.	~ 0.66	
C. ESS = 25 TSS = 75	III.	~ 0.625	
D. ESS = 35 TSS = 95	IV.	~ 0.55	

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714042

Option 1 ID : 61198754709

Option 2 ID : 61198754710

Option 3 ID : 61198754711

Option 4 ID : 61198754712

Status : Answered

Chosen Option : 2

**Q.135** Consider earth as a black body at temperature of  $-18^{\circ}\text{C}$ . The wavelength of maximum emission of terrestrial radiation will be:

1.  $9.61 \mu\text{m}$
2.  $8.12 \mu\text{m}$
3.  $11.36 \mu\text{m}$
4.  $9.89 \mu\text{m}$

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714089

Option 1 ID : 61198754897

Option 2 ID : 61198754898

Option 3 ID : 61198754899

Option 4 ID : 61198754900

Status : Answered

Chosen Option : 3

**Q.136** As per EIA notification (2006); which of the following statement(s) is (are) correct?

- A. A-category projects require prior environment clearance from Central Government.
- B. National defense and security projects have mandatory requirement for public consultation.
- C. B<sub>1</sub> category projects do not require environmental clearance.
- D. EAC and SEAC are the regulatory authorities to grant or reject environment clearance.

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

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

**Options 1. 1**

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714124

Option 1 ID : 61198755037

Option 2 ID : 61198755038

Option 3 ID : 61198755039

Option 4 ID : 61198755040

Status : Answered

Chosen Option : 1

Q.137 Identify the Boudouard reaction from various gas-solid reactions during biomass gasification process.

1.  $C + \frac{1}{2}O_2 \leftrightarrow CO$
2.  $C + CO_2 \leftrightarrow 2CO$
3.  $C + H_2O \leftrightarrow H_2 + CO$
4.  $C + 2H_2 \leftrightarrow CH_4$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714079

Option 1 ID : 61198754857

Option 2 ID : 61198754858

Option 3 ID : 61198754859

Option 4 ID : 61198754860

Status : Answered

Chosen Option : 4

Q.138 Identify the measures of variability in a dataset.

- A. Percentiles
- B. Quartiles
- C. Range
- D. Interquartile Range
- E. Mean Deviation

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

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714113

Option 1 ID : 61198754993

Option 2 ID : 61198754994

Option 3 ID : 61198754995

Option 4 ID : 61198754996

Status : Answered

Chosen Option : 4

Q.139 Match the LIST-I with LIST-II

LIST-I (Microwave Bands)		LIST-II Frequency Range (GHz)	
A.	P	I.	12.5 - 18
B.	S	II.	4 - 8
C.	C	III.	2 - 4
D.	Ku	IV.	0.3 - 1

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-III, C-II, D-I

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714044

Option 1 ID : 61198754717

Option 2 ID : 61198754718

Option 3 ID : 61198754719

Option 4 ID : 61198754720

Status : Answered

Chosen Option : 3

Q.140 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R**.**Assertion A:** Dioxins and furans are chlorinated compounds that have somewhat similar chemical structures.**Reason R:** They both consist of two benzene rings that are linked together with oxygen bridges.In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both A and R are correct and R is the correct explanation of A
2. Both A and R are correct but R is NOT the correct explanation of A
3. A is correct but R is not correct
4. A is not correct but R is correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714101

Option 1 ID : 61198754945

Option 2 ID : 61198754946

Option 3 ID : 61198754947

Option 4 ID : 61198754948

Status : Answered

Chosen Option : 1

**Comprehension:**

Read the passage given below and answer questions:

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of  $O_2$  means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon ( $ZrSiO_4$ ) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**SubQuestion No : 141**

**Q.141** According to the passage, the evidence for the existence of early oceans pertains to which of the following periods?

1.  $\sim 4.8 \times 10^9$  years ago
2.  $\sim 3.86 \times 10^9$  years ago
3.  $\sim 5 \times 10^8$  years ago
4.  $\sim 4.3 \times 10^8$  years ago

Options 1. 1

2. 2  
3. 3  
4. 4

Question Type : MCQ  
Question ID : 61198714134  
Option 1 ID : 61198755073  
Option 2 ID : 61198755074  
Option 3 ID : 61198755075  
Option 4 ID : 61198755076  
Status : Answered  
Chosen Option : 3



**Comprehension:**

Read the passage given below and answer questions:

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of O<sub>2</sub> means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon (ZrSiO<sub>4</sub>) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**SubQuestion No : 142**

**Q.142** Which of the following is NOT a source of water in the early phase (first 200-400 million years) after Earth's formation?

1. Volcanic outgassing
2. Collisions with icy comets
3. Early oceans
4. Collisions with icy asteroids

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714133

Option 1 ID : 61198755069

Option 2 ID : 61198755070

Option 3 ID : 61198755071

Option 4 ID : 61198755072

Status : Answered

Chosen Option : 3

**Comprehension:**

Read the passage given below and answer questions:

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of  $O_2$  means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon ( $ZrSiO_4$ ) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**SubQuestion No : 143**

**Q.143** Based on the information given in the passage, what could be the most probable age of earth?

1. ~ 4.8 billion years
2. ~ 4.3 billion years
3. ~ 3.86 billion years
4. ~ 500 million years

**Options**

1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 61198714131

Option 1 ID : 61198755061

Option 2 ID : 61198755062

Option 3 ID : 61198755063

Option 4 ID : 61198755064

Status : Answered

Chosen Option : 4

**Comprehension:**

Read the passage given below and answer questions:

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of  $O_2$  means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon ( $ZrSiO_4$ ) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**SubQuestion No : 144**

**Q.144** The earliest evidence of liquid water on earth comes from

1. Sedimentary rocks found in southwestern Greenland
2. Icy comets
3. Analysis of ancient zircon crystals
4. Presence of early oceans

Options 1. 1

2. 2  
3. 3  
4. 4

Question Type : MCQ  
Question ID : 61198714135  
Option 1 ID : 61198755077  
Option 2 ID : 61198755078  
Option 3 ID : 61198755079  
Option 4 ID : 61198755080  
Status : Answered  
Chosen Option : 1



**Comprehension:**

Read the passage given below and answer questions:

The inhospitable conditions of early Earth, characterized by a molten surface under intense bombardment by asteroids and other objects from space, persisted for up to 500 million years. The intense heat and the absence of liquid water indicate that early Earth was completely devoid of life. Furthermore, the early Earth was anoxic, and the absence of  $O_2$  means that Earth lacked an ozone layer, allowing intense ultraviolet light to sterilize its surface. Water on Earth originated from volcanic outgassing of the planet's interior and from innumerable collisions with icy comets and asteroids. Given Earth's heat at the time, this water would have been present only as water vapor. However, ancient crystals of the mineral zircon ( $ZrSiO_4$ ) have been discovered that were formed on the early Earth, and these materials have given us a glimpse of conditions on Earth prior to the origin of life. Analyses of ancient zircon crystals, including impurities trapped in these crystals and their oxygen isotope ratios, provide evidence for a solid crust and liquid water on Earth as early as 4.3 bya. Additional evidence of water comes from ancient sedimentary rocks, since sedimentary rocks are only formed under water. Among the oldest surviving sedimentary rocks are those found in southwestern Greenland, dating to 3.86 bya. These ancient rocks indicate the presence of early oceans.

**SubQuestion No : 145**

**Q.145** Which of the following is NOT correct about the early phase (first 200-400 million years) after Earth's formation?

1. There was no life on earth.
2. There were anoxic conditions on earth.
3. Earth had ozone layer.
4. There was no liquid water.

Options 1. 1

2. 2  
3. 3  
4. 4

Question Type : MCQ

Question ID : 61198714132

Option 1 ID : 61198755065

Option 2 ID : 61198755066

Option 3 ID : 61198755067

Option 4 ID : 61198755068

Status : Answered

Chosen Option : 3

**Adda247**

**Comprehension:**

Read the passage given below and answer questions:

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possibly spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**SubQuestion No : 146**

**Q.146** End of the Devonian period corresponds most likely to the period

1. ~ 90 million years ago
2. ~ 353 million years ago
3. ~ 245 million years ago
4. ~ 533 million years ago

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714137

Option 1 ID : 61198755081

Option 2 ID : 61198755082

Option 3 ID : 61198755083

Option 4 ID : 61198755084

Status : Answered

Chosen Option : 1

**Comprehension:**

Read the passage given below and answer questions:

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possibly spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**SubQuestion No : 147**

**Q.147** Among the mass extinctions mentioned in the passage, the most devastating loss of marine life occurred near the end of

1. Ordovician
2. Devonian
3. Permian
4. Eocene

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714138

Option 1 ID : 61198755085

Option 2 ID : 61198755086

Option 3 ID : 61198755087

Option 4 ID : 61198755088

Status : Answered

Chosen Option : 3

**Adda247**

**Comprehension:**

Read the passage given below and answer questions:

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possibly spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**SubQuestion No : 148**

**Q.148** Global cooling followed by rapid global warming accompanied with large variations in climate was the most likely cause of mass extinctions pertaining to which period?

1. At the end of the Cretaceous period
2. Near the end of the Devonian
3. Near the end of the Permian
4. Near the end of the Ordovician

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 61198714140

Option 1 ID : 61198755093

Option 2 ID : 61198755094

Option 3 ID : 61198755095

Option 4 ID : 61198755096

Status : Answered

Chosen Option : 3

**Adda247**

**Comprehension:**

Read the passage given below and answer questions:

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possibly spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**SubQuestion No : 149**

**Q.149** Mass extinction at the end of Cretaceous period was likely caused by

1. Global warming
2. Global cooling
3. Global cooling followed by global warming
4. Impact of giant asteroid

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 61198714139

Option 1 ID : 61198755089

Option 2 ID : 61198755090

Option 3 ID : 61198755091

Option 4 ID : 61198755092

Status : Answered

Chosen Option : 4

**Comprehension:**

Read the passage given below and answer questions:

The earliest mass extinction occurred approximately 443 million years ago, near the end of the Ordovician period. Although not much is known about the cause of this extinction, it may have been related to global cooling. Approximately 100 families and their associated species became extinct during this period. The next mass extinction occurred 90 million years later near the end of the Devonian. That extinction was responsible for the death of about 70 percent of all (marine) invertebrate species and was also probably related to climate change and global cooling. The third mass extinction occurred near the end of the Permian— about 245 million years ago— when 95 percent of all marine species died. It is believed that this mass extinction possible spanned a period of about 7 million years. It is thought that global cooling, followed by rapid global warming with large variations in climate, may have been responsible. There was also significant volcanic activity during this time, and the tremendous amount of volcanic ash and gases in the atmosphere probably contributed to the cooling. At the end of the Cretaceous period, another tremendous mass extinction event occurred. This event was sudden, and there is abundant evidence to suggest that it was caused by the impact of a giant asteroid. Another mass extinction occurred near the end of the Eocene about 35 million years ago.

**SubQuestion No : 150**

**Q.150** Global cooling has been associated with mass extinctions that occurred near the end of \_\_\_\_\_.

1. Ordovician, Cretaceous and Permian
2. Ordovician, Eocene and Permian
3. Ordovician, Cretaceous and Devonian
4. Ordovician, Devonian and Permian

**Options**

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

Question Type : MCQ

Question ID : 61198714141

Option 1 ID : 61198755097

Option 2 ID : 61198755098

Option 3 ID : 61198755099

Option 4 ID : 61198755100

Status : Answered

Chosen Option : 4