

NTA UGC NET Jun 2025

Application No	
Candidate Name	
Roll No.	
Test Date	25/06/2025
Test Time	9:00 AM - 12:00 PM
Subject	89 Environmental Sciences

Section : General Paper

Comprehension:

The following table shows the number of students (Boys and Girls) and the percentage of girls who passed in a 10+2 examination from six different schools (A-F) in the year 2023 and 2024. Based on the data in the table, answer the questions that follow.

School-wise Details of Students Passing in a 10+2 examination

School	Year			
	2023		2024	
	Number of Passed Students	Percentage of Passed Girls	Number of Passed Students	Percentage of Passed Girls
A	500	46%	550	44%
B	600	42%	640	40%
C	650	56%	560	45%
D	720	60%	800	48%
E	600	54%	840	55%
F	650	50%	750	36%

SubQuestion No : 1

Q.1 What is the ratio of the number of boys who passed from School A in 2023 to the number of girls who passed from School E in the year 2023?

1. 4 : 3
2. 5 : 4
3. 5 : 6
4. 6 : 7

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066827**

Option 1 ID : **9380663205**

Option 2 ID : **9380663206**

Option 3 ID : **9380663207**

Option 4 ID : **9380663208**

Status : **Answered**

Chosen Option : **2**

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SubQuestion No : 2

Q.2 For School F, the number of boys who passed in the year 2024 is approximately _____ % more than that in 2023.

1. 42.5
2. 47.7
3. 52.8
4. 57.5

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066828**

Option 1 ID : **9380663209**

Option 2 ID : **9380663210**

Option 3 ID : **9380663211**

Option 4 ID : **9380663212**

Status : **Answered**

Chosen Option : **2**

Comprehension:

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SubQuestion No : 3

Q.3 What is the average number of boys who passed in the 10+2 examination in the year 2024 from all the six schools (A-F) together?

1. 376
2. 377
3. 378
4. 379

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066826**

Option 1 ID : **9380663201**

Option 2 ID : **9380663202**

Option 3 ID : **9380663203**

Option 4 ID : **9380663204**

Status : **Answered**

Chosen Option : **4**

Comprehension:

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F	650	50%	750	36%

SubQuestion No : 4

Q.4 The average number of girls who passed in the year 2024 from all the six schools is _____ % of the number of students who passed from School A in the year 2023.

1. 61.1
2. 62.2
3. 63.3
4. 64.4

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066829**

Option 1 ID : **9380663213**

Option 2 ID : **9380663214**

Option 3 ID : **9380663215**

Option 4 ID : **9380663216**

Status : **Answered**

Chosen Option : **1**

Comprehension:

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D	720	60%	800	48%
E	600	54%	840	55%
F	650	50%	750	36%

SubQuestion No : 5

Q.5 Number of boys who passed in the examination is more than 300 in the year 2023 as well as in 2024 in only _____ schools.

1. two
2. three
3. four
4. five

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066830**

Option 1 ID : **9380663217**

Option 2 ID : **9380663218**

Option 3 ID : **9380663219**

Option 4 ID : **9380663220**

Status : **Answered**

Chosen Option : **4**

Q.6 The role of a teacher in supporting experiential learning can't be of a/ the _____.

1. Coach
2. Mentor
3. Tutor
4. Technology

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066831

Option 1 ID : 9380663221

Option 2 ID : 9380663222

Option 3 ID : 9380663223

Option 4 ID : 9380663224

Status : Answered

Chosen Option : 4

Q.7 Arrange the level of Bloom's Taxonomy from lower to higher order in the cognitive domain

- A. Analyzing
- B. Understanding
- C. Applying
- D. Evaluating
- E. Remembering

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066833

Option 1 ID : 9380663229

Option 2 ID : 9380663230

Option 3 ID : 9380663231

Option 4 ID : 9380663232

Status : Answered

Chosen Option : 3

Q.8

Which of the following is not considered as self-generated feedback?

1. Assurance
2. Previewing
3. Retracing
4. Observation

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066832**Option 1 ID : **9380663225**Option 2 ID : **9380663226**Option 3 ID : **9380663227**Option 4 ID : **9380663228**Status : **Answered**Chosen Option : **1**

Q.9

As of February 28, 2025, write the highest grossing Indian films starting from highest grossing to the lowest grossing.

- A. Bahubali-2
- B. RRR
- C. Pushpa-2
- D. KGF- Chapter 2
- E. Dangal

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066843**Option 1 ID : **9380663269**Option 2 ID : **9380663270**Option 3 ID : **9380663271**Option 4 ID : **9380663272**Status : **Answered**Chosen Option : **4**

Q.10 What is the correct increasing order of U-235 (fissile uranium) ratio in following?

- A. Natural Uranium
- B. Uranium Ore
- C. Weapon grade uranium
- D. Reactor grade uranium

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066865**

Option 1 ID : **9380663357**

Option 2 ID : **9380663358**

Option 3 ID : **9380663359**

Option 4 ID : **9380663360**

Status : **Answered**

Chosen Option : **3**

Q.11 Match the **LIST-I** with **LIST-II**

LIST-I (Waste water treatment process)		LIST-II (Explanation)	
A.	Ozonation	I.	Removal of excess iron and manganese
B.	Aeration	II.	Removal of large solids
C.	Floculation	III.	Disinfection
D.	Screening	IV.	Very small particles are clustered together

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

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066864**

Option 1 ID : **9380663353**

Option 2 ID : **9380663354**

Option 3 ID : **9380663355**

Option 4 ID : **9380663356**

Status : **Answered**

Chosen Option : **1**

Q.12 "The world is an effect and hence it must have an efficient and intelligent cause. That efficient and intelligent cause is God." Which means of knowledge is used in this argument as per classical Indian School of Logic (Nyāya)?

1. Perception
2. Inference
3. Analogy
4. Verbal authority

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066855**

Option 1 ID : **9380663317**

Option 2 ID : **9380663318**

Option 3 ID : **9380663319**

Option 4 ID : **9380663320**

Status : **Answered**

Chosen Option : **4**

Q.13 What among the following are some media organisations?

- A. Registrar of Newspaper for India (RNI)
- B. National Institute of Fashion Technology (NIFT)
- C. The Press Council of India (PCI)
- D. Audit Bureau of Circulation Ltd (ABC)
- E. University School of Mass Communication (USMC)

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066844**

Option 1 ID : **9380663273**

Option 2 ID : **9380663274**

Option 3 ID : **9380663275**

Option 4 ID : **9380663276**

Status : **Answered**

Chosen Option : **4**

Q.14

Find the wrong term in the series given below:

3, 12, 36, 144, 432, 1738, 5184

1. 12
2. 432
3. 1738
4. 5184

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066846**Option 1 ID : **9380663281**Option 2 ID : **9380663282**Option 3 ID : **9380663283**Option 4 ID : **9380663284**Status : **Answered**Chosen Option : **3**

Q.15

Which fallacy is committed in the following statement- "I can expect that you would not find any moral issue in making abortion illegal, since your ability to feel sympathy for the rights of women in general is very limited?"

1. Begging the question
2. Ad Hominem
3. Hasty generalisation
4. Slippery slope

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066851**Option 1 ID : **9380663301**Option 2 ID : **9380663302**Option 3 ID : **9380663303**Option 4 ID : **9380663304**Status : **Answered**Chosen Option : **2**

Q.16 If the sender has not formulated the idea, thought or message in proper manner, it can result into a barrier in communication. The barrier occurs at what level?

1. Transmission stage
2. At the end of the decoder
3. At the level of the encoder
4. Technical stage

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 938066842

Option 1 ID : 9380663265

Option 2 ID : 9380663266

Option 3 ID : 9380663267

Option 4 ID : 9380663268

Status : Answered

Chosen Option : 2

Q.17 Which of the following propositions are so related that they cannot both be false, though they can both be true?

- A. Some poems are artworks.
- B. All poems are artworks.
- C. Some poems are not artworks.
- D. Some artworks are poems.

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 938066853

Option 1 ID : 9380663309

Option 2 ID : 9380663310

Option 3 ID : 9380663311

Option 4 ID : 9380663312

Status : Answered

Chosen Option : 2

Q.18 In a certain code language 'GERMANY' is coded as 9, 7, 20, 15, 3, 16, 27. How 'FRANCE' will be coded in this language?

1. 7, 19, 2, 15, 4, 6
2. 8, 20, 30, 16, 5, 7
3. 8, 20, 3, 16, 5, 7
4. 6, 18, 1, 14, 3, 5

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066847**

Option 1 ID : **9380663285**

Option 2 ID : **9380663286**

Option 3 ID : **9380663287**

Option 4 ID : **9380663288**

Status : **Answered**

Chosen Option : **3**

Q.19 What is the correct sequence, from initial to final, of blue baby disease, methemoglobinemia, in human infants?

- A. Conversion of nitrate ions to nitrite ions by microorganisms in human body
- B. Oxidation of ions from Fe(II) to Fe(III) in hemoglobin by nitrite ions.
- C. Consumption of nitrate polluted water
- D. Forming of abnormal hemoglobin called methemoglobin

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066861**

Option 1 ID : **9380663341**

Option 2 ID : **9380663342**

Option 3 ID : **9380663343**

Option 4 ID : **9380663344**

Status : **Answered**

Chosen Option : **2**

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

LIST-I (Films)		LIST-II (Year of release)	
A.	Mugle Azam	I.	1975
B.	Sholay	II.	1973
C.	Bobby	III.	1989
D.	Maine Pyar Kiya	IV.	1960

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

1. A-I, B-II, C-III, D-IV
2. A-IV, B-I, C-II, D-III
3. A-IV, B-III, C-II, 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 : **938066845**

Option 1 ID : **9380663277**

Option 2 ID : **9380663278**

Option 3 ID : **9380663279**

Option 4 ID : **9380663280**

Status : **Answered**

Chosen Option : **2**

Q.21 What is not a Research?

1. Research is a careful and exhaustive investigation of a phenomenon with an objective of advancing knowledge.
2. It is a systematic and objective attempt to study a problem for the purpose of deriving general principles.
3. Research is based on common sense knowledge, based on the accumulated experiences and beliefs of the people.
4. It is a systematic investigation to find solutions to a problem.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066836**

Option 1 ID : **9380663241**

Option 2 ID : **9380663242**

Option 3 ID : **9380663243**

Option 4 ID : **9380663244**

Status : **Answered**

Chosen Option : **3**

Q.22 When a person is talking to himself/ herself or contemplating or dreaming while in sleep, then this type of communication is known as

1. Inter-personal
2. Intra-personal
3. Inter-cultural
4. Inter-national

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066841**

Option 1 ID : **9380663261**

Option 2 ID : **9380663262**

Option 3 ID : **9380663263**

Option 4 ID : **9380663264**

Status : **Answered**

Chosen Option : **2**

Q.23 The interest earned on ₹ 8000 when invested in some scheme for 2 years at 7 % simple interest, per annum is half of the interest earned on another amount P invested for five years in the same scheme at the same rate of interest. Find the value of P.

1. ₹ 6200
2. ₹ 6000
3. ₹ 6400
4. ₹ 5000

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066848**

Option 1 ID : **9380663289**

Option 2 ID : **9380663290**

Option 3 ID : **9380663291**

Option 4 ID : **9380663292**

Status : **Not Attempted and
Marked For Review**

Chosen Option : **--**

Q.24

Which of the following is not a web browser?

1. Opera
2. Safari
3. Firefox
4. Google

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066857**Option 1 ID : **9380663325**Option 2 ID : **9380663326**Option 3 ID : **9380663327**Option 4 ID : **9380663328**Status : **Answered**Chosen Option : **2**

Q.25

Match the LIST-I with LIST-II

LIST-I (Concepts)		LIST-II (Meanings)	
A.	Theory	I.	Generalized representations of a system or an object, that is constructed to some aspects of that system or the system as a whole.
B.	Model	II.	Research problem is represented by a mathematical model.
C.	Survey	III.	It is a set of systematically interrelated propositions that explain and predict a phenomenon or a fact.
D.	Modeling	IV.	It is a data collection technique using a questionnaire.

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066840**Option 1 ID : **9380663257**Option 2 ID : **9380663258**Option 3 ID : **9380663259**Option 4 ID : **9380663260**Status : **Answered**Chosen Option : **4**

Q.26 Scientific Observations are based on _____.

1. Verifiable evidence or systematic body of proof that can be cited.
2. Accumulated experiences
3. Prejudices
4. Beliefs of the people

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066837**

Option 1 ID : **9380663245**

Option 2 ID : **9380663246**

Option 3 ID : **9380663247**

Option 4 ID : **9380663248**

Status : **Answered**

Chosen Option : **1**

Q.27 In _____, each communicating device is connected with every other device in the computer network.

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066856**

Option 1 ID : **9380663321**

Option 2 ID : **9380663322**

Option 3 ID : **9380663323**

Option 4 ID : **9380663324**

Status : **Answered**

Chosen Option : **2**

Q.28

Which of following statements are correct?

- A. Worm can be hardware and software.
- B. Cookies are used to store browsing information.
- C. Sandbox detection is malware identification method.
- D. HTTP has better security than HTTPS.
- E. Trojan is an antivirus.

Choose the correct answer from the options given below:

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

Options 1.1

2.2

3.3

4.4

Question Type : **MCQ**

Question ID : **938066859**

Option 1 ID : **9380663333**

Option 2 ID : **9380663334**

Option 3 ID : **9380663335**

Option 4 ID : **9380663336**

Status : **Answered**

Chosen Option : **3**

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

LIST-I (Author)		LIST-II (Area)	
A.	Sankara	I.	Vedanta Sutras
B.	Ramanuja	II.	Algebra and Astronomy
C.	Vidyapati	III.	Dialect of Behar
D.	Bhaskara	IV.	Vedanta Sutras and the Bhagavatgita

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066870**

Option 1 ID : **9380663377**

Option 2 ID : **9380663378**

Option 3 ID : **9380663379**

Option 4 ID : **9380663380**

Status : **Answered**

Chosen Option : **2**

Q.30 Which of the following are four guiding principles in the development of higher education in India?

1. Access, Authority, Equity, Equality
2. Accountability, Based on freedom, Access, Free
3. Access, Equity, Accountability, Equality
4. Assessment, Equality, Affordability, Research Oriented

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066866**

Option 1 ID : **9380663361**

Option 2 ID : **9380663362**

Option 3 ID : **9380663363**

Option 4 ID : **9380663364**

Status : **Answered**

Chosen Option : **3**

Q.31 Identify the sequence of appropriate words A-D that correctly fills the blanks in the following paragraph:
Radio _____ Identification Systems use radio waves to read and capture information stored on a tag, which can be read from several metres away. The _____ is made up of a(n) _____ to store and process data, and a(n) _____ to receive and transmit data.

- A. tag
- B. frequency
- C. antenna
- D. microchip

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : MCQ

Question ID : 938066858

Option 1 ID : 9380663329

Option 2 ID : 9380663330

Option 3 ID : 9380663331

Option 4 ID : 9380663332

Status : Answered

Chosen Option : 3

Q.32 The full form of AICTE is _____

- 1. Academic Institutions Council of Teacher Education
- 2. All India Council for Technical Education
- 3. All India Constitution for Teacher Education
- 4. All India Institute for Teacher Education

Options 1.1

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

Question Type : MCQ

Question ID : 938066867

Option 1 ID : 9380663365

Option 2 ID : 9380663366

Option 3 ID : 9380663367

Option 4 ID : 9380663368

Status : Answered

Chosen Option : 1

Q.33 Match the **LIST-I** with **LIST-II**

LIST-I (Types of water pollutant)		LIST-II (Example)	
A.	Disease Causing Agent	I.	Fine particles of clay
B.	Oxygen Consuming Waste	II.	Coliform Bacteria
C.	Plant Nutrient	III.	Animals and Plants in aquatic habitat
D.	Suspended Solids	IV.	Phosphorous

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066863**

Option 1 ID : **9380663349**

Option 2 ID : **9380663350**

Option 3 ID : **9380663351**

Option 4 ID : **9380663352**

Status : **Answered**

Chosen Option : **2**

Q.34 In the Buddha Period, which educational centres were established along with monasteries?

- A. Ballabhi
- B. Baba Mastnath University
- C. Nalanda
- D. Vikramshila
- E. Taxila

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066869**

Option 1 ID : **9380663373**

Option 2 ID : **9380663374**

Option 3 ID : **9380663375**

Option 4 ID : **9380663376**

Status : **Answered**

Chosen Option : **3**

Q.35 Match the LIST-I with LIST-II

LIST-I (Recognition System)		LIST-II (Application)	
A.	MICR	I.	Reading the car number plates
B.	OCR	II.	Capturing product information so that it can be added to the customer's purchase total
C.	OMR	III.	Reading the numbers found on a bank cheque
D.	Barcode Reader	IV.	Reading marks written using pencil or pen on a specially printed paper.

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066860**

Option 1 ID : **9380663337**

Option 2 ID : **9380663338**

Option 3 ID : **9380663339**

Option 4 ID : **9380663340**

Status : **Answered**

Chosen Option : **4**

Q.36 Match the **LIST-I** with **LIST-II**

LIST-I (Principle)		LIST-II (Implication)	
A.	Encouraging student's deep approaches to learning objectives	I.	Feed back should be embedded within assessment practices.
B.	The summative and formative assessments to be learning oriented	II.	Task design should be approached from a program-wide perspective.
C.	Facilitating dialogic forms of feed back	III.	Greater sense of ownership by students
D.	Involving some personal student investment	IV.	A variety of assessment for student motivation.

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066835**

Option 1 ID : **9380663237**

Option 2 ID : **9380663238**

Option 3 ID : **9380663239**

Option 4 ID : **9380663240**

Status : **Answered**

Chosen Option : **2**

Q.37 Electrostatic Precipitator is used in Thermal Power Plants to remove which of the following air pollutants?

1. Polycycli Aromatic Hydrocarbons
2. Gaseous Pollutants
3. Fly ash
4. Volatile Organic Compounds

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066862**

Option 1 ID : **9380663345**

Option 2 ID : **9380663346**

Option 3 ID : **9380663347**

Option 4 ID : **9380663348**

Status : **Answered**

Chosen Option : **1**

Q.38 Criteria for Hypotheses construction are

- A. It should describe one issue only.
- B. It should describe many issues.
- C. It should specify variables between which the relationship is to be established.
- D. It should be specific and precise.
- E. It should be empirically testable, whether it is right or wrong.

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : MCQ

Question ID : 938066839

Option 1 ID : 9380663253

Option 2 ID : 9380663254

Option 3 ID : 9380663255

Option 4 ID : 9380663256

Status : Answered

Chosen Option : 3

Q.39 Arrange the following components in the context of "Effective Learning Environment".

- A. Continuous Formative Assessment
- B. Adequate Students Support
- C. Appropriate Curriculum
- D. Engaging Pedagogy
- E. Providing suitable resources and infrastructure

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : MCQ

Question ID : 938066868

Option 1 ID : 9380663369

Option 2 ID : 9380663370

Option 3 ID : 9380663371

Option 4 ID : 9380663372

Status : Answered

Chosen Option : 1

Q.40

What among the following are known as Assessment Instruments?

- A. Tests
- B. Examinations
- C. Rubrics
- D. Worksheets
- E. Quizzes

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066834**

Option 1 ID : **9380663233**

Option 2 ID : **9380663234**

Option 3 ID : **9380663235**

Option 4 ID : **9380663236**

Status : **Answered**

Chosen Option : **4**

Q.41

For different sets of datasets X and Y, correlation coefficient between X and Y, that is R and standard deviation of X and Y, that is, S(X) and S(Y) are given in A-D below. Estimate the covariance between X and Y for each dataset and arrange in ascending order.

- A. $R=0.5$, $S(X)=8$, $S(Y)=10$
- B. $R=4/7$, $S(X)=7$, $S(Y)=9$
- C. $R=0.7$, $S(X)=12$, $S(Y)=5$
- D. $R=19/42$, $S(X)=14$, $S(Y)=6$

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066838**

Option 1 ID : **9380663249**

Option 2 ID : **9380663250**

Option 3 ID : **9380663251**

Option 4 ID : **9380663252**

Status : **Answered**

Chosen Option : **2**

Q.42

Arrange the following terms in order of increasing denotation.

- A. Chess
- B. Board games
- C. Sports
- D. Indoor games

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066854**

Option 1 ID : **9380663313**

Option 2 ID : **9380663314**

Option 3 ID : **9380663315**

Option 4 ID : **9380663316**

Status : **Answered**

Chosen Option : **3**

Q.43 Which of the following statement(s) is/are true?

- A. Speed of x m/sec is equal to $x \frac{5}{18}$ km/hr.
- B. If a train runs at $\frac{5}{6}$ of its usual speed, it gets late by 10 minutes. The usual time of the train to cover the journey is 40 minutes.
- C. A car moves at the speed of 80 Km/hr. The speed of the car in meters per second is $22\frac{2}{9}$.
- D. A person crosses a 600 m long street in 5 minutes. The speed of the person in Km per hour is 7.2.

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066849**

Option 1 ID : **9380663293**

Option 2 ID : **9380663294**

Option 3 ID : **9380663295**

Option 4 ID : **9380663296**

Status : **Answered**

Chosen Option : **3**

Q.44 A person takes a loan of ₹ 5000 at 5% simple interest. He returns ₹ 3000 at the end of one year. How much he would have to pay, in order to clear his dues, at the end of 2 years?

1. ₹ 2450
2. ₹ 2500
3. ₹ 2350
4. ₹ 2400

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066850**

Option 1 ID : **9380663297**

Option 2 ID : **9380663298**

Option 3 ID : **9380663299**

Option 4 ID : **9380663300**

Status : **Not Attempted and
Marked For Review**

Chosen Option : **--**

Q.45

Which of the following statements are logically equivalent?

- A. No soaps are writing-tools.
- B. All soaps are non-writing-tools.
- C. No non-writing-tools are soaps.
- D. No writing-tools are soaps.

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066852**

Option 1 ID : **9380663305**

Option 2 ID : **9380663306**

Option 3 ID : **9380663307**

Option 4 ID : **9380663308**

Status : **Answered**

Chosen Option : **4**

Comprehension:**Read the following passage carefully and answer the questions:**

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

SubQuestion No : 46

Q.46

The capitalist system focuses on

1. Maximum production
2. Unusual benefits
3. Investment on human resources
4. Reduction of expenditure

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066876****Option 1 ID : 9380663397****Option 2 ID : 9380663398****Option 3 ID : 9380663399****Option 4 ID : 9380663400****Status : Answered****Chosen Option : 4**

Comprehension:**Read the following passage carefully and answer the questions:**

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

SubQuestion No : 47**Q.47**

After going through the passage, it can be inferred that the capitalist system is

1. Ambitious
2. Biased
3. Humane
4. Realistic

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066872****Option 1 ID : 9380663381****Option 2 ID : 9380663382****Option 3 ID : 9380663383****Option 4 ID : 9380663384****Status : Answered****Chosen Option : 2**

Comprehension:**Read the following passage carefully and answer the questions:**

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

SubQuestion No : 48

Q.48 Capitalism is detrimental to equality as it divides the society into the groups, namely,

1. Working and non-working
2. Buyers and Sellers
3. Exploiters and Exploited
4. Religious and Atheist

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066875**

Option 1 ID : **9380663393**

Option 2 ID : **9380663394**

Option 3 ID : **9380663395**

Option 4 ID : **9380663396**

Status : **Answered**

Chosen Option : **3**

Comprehension:**Read the following passage carefully and answer the questions:**

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

SubQuestion No : 49

Q.49

In a capitalist system,

1. the ends justify the means
2. the means justify the ends
3. the means leading to exploitation are strictly prohibited
4. the religion decides the issue related to the means

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066874****Option 1 ID : 9380663389****Option 2 ID : 9380663390****Option 3 ID : 9380663391****Option 4 ID : 9380663392****Status : Answered****Chosen Option : 4**

Comprehension:**Read the following passage carefully and answer the questions:**

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others-though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is done on the basis of economic circumstances. All this is injurious to division of human dignity. And when the harrowed poor turn to the founders of religion for succour, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

SubQuestion No : 50

Q.50

The maximum control over the means of production is under

1. All the stake holders
2. Proletarian class
3. Owners of the system
4. Working class

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066873****Option 1 ID : 9380663385****Option 2 ID : 9380663386****Option 3 ID : 9380663387****Option 4 ID : 9380663388****Status : Answered****Chosen Option : 1**

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

LIST-I		LIST-II	
A.	Dichlorvos	I.	Type A organophosphate insecticide
B.	Melathion	II.	Type B organophosphate insecticide
C.	Parathion	III.	Type C organophosphate insecticide
D.	Lindane	IV.	Organochlorine Insecticide

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066887**

Option 1 ID : **9380663441**

Option 2 ID : **9380663442**

Option 3 ID : **9380663443**

Option 4 ID : **9380663444**

Status : **Answered**

Chosen Option : **2**

Q.52 Arrange the following distinct zones of the Sun starting from the core to outward:

- A. Chromosphere
- B. Convection zone
- C. Corona
- D. Photosphere
- E. Radiative zone

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066886**

Option 1 ID : **9380663437**

Option 2 ID : **9380663438**

Option 3 ID : **9380663439**

Option 4 ID : **9380663440**

Status : **Answered**

Chosen Option : **2**

Q.53 Match the **LIST-I** with **LIST-II**

LIST-I Platform		LIST-II Sensors	
A.	Aqua	I.	MSI
B.	NOAA	II.	MODIS
C.	Sentinel – 2	III.	ASTER, MODIS
D.	Terra	IV.	VIIRS, AVHRR

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066884**

Option 1 ID : **9380663429**

Option 2 ID : **9380663430**

Option 3 ID : **9380663431**

Option 4 ID : **9380663432**

Status : **Answered**

Chosen Option : **1**

Q.54 Choose the **INCORRECT** statement about Global warming?

1. Atmospheric particles can only exert direct radiative forcing
2. Complete combustion of fossil fuel too contribute to global warming.
3. Action of greenhouse gas is opposed by trace gases derived from sulfur compounds.
4. There has been instances of polar amplification of warming.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066920**

Option 1 ID : **9380663573**

Option 2 ID : **9380663574**

Option 3 ID : **9380663575**

Option 4 ID : **9380663576**

Status : **Answered**

Chosen Option : **4**

Q.55 Arrange the following in chronological order as per their year of enactment starting from old to recent one

- A. Basel Convention
- B. Montreal Protocol
- C. Copenhagen Summit
- D. Kyoto Protocol
- E. Tbilisi Conference

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066948**

Option 1 ID : **9380663685**

Option 2 ID : **9380663686**

Option 3 ID : **9380663687**

Option 4 ID : **9380663688**

Status : **Answered**

Chosen Option : **4**

Q.56 Which of the following are NOT a nuclear fuel minerals?

- 1. Anglesite
- 2. Pitch blende
- 3. Carnotite
- 4. Monazite

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066919**

Option 1 ID : **9380663569**

Option 2 ID : **9380663570**

Option 3 ID : **9380663571**

Option 4 ID : **9380663572**

Status : **Answered**

Chosen Option : **4**

Q.57

Convert the concentration of the following gases in $\mu\text{g}/\text{m}^3$ unit and arrange them in increasing order of their concentration in $\mu\text{g}/\text{m}^3$ in ambient atmosphere at 25°C . Consider the gases follow ideal gas law.

- A. 1 ppm of O_3
- B. 1 ppm of SO_2
- C. 4 ppm of NH_3
- D. 1 ppm of CO
- E. 1ppm of CO_2

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**Question ID : **938066924**Option 1 ID : **9380663589**Option 2 ID : **9380663590**Option 3 ID : **9380663591**Option 4 ID : **9380663592**Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.58

Which of the following judicial principle has often been involved by Indian courts to uphold environmental clearance requirements under EIA?

- 1. Caveat Emptor
- 2. Eminent Domain
- 3. Precautionary Principle
- 4. Strict Liability

Options 1.1

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

Question Type : **MCQ**Question ID : **938066945**Option 1 ID : **9380663673**Option 2 ID : **9380663674**Option 3 ID : **9380663675**Option 4 ID : **9380663676**Status : **Answered**Chosen Option : **3**

Q.59 Select the CORRECT statement about CAM plants.

1. CAM plants separates CO₂ uptake and Calvin cycle spatially.
2. CAM plants separates CO₂ uptake and Calvin cycle temporally.
3. CAM pathway is mainly found in the grass family and their stomata are open during the day
4. CO₂ concentration in the photosynthetic tissues of CAM plants is lower than that in the atmosphere during the day.

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 938066901

Option 1 ID : 9380663497

Option 2 ID : 9380663498

Option 3 ID : 9380663499

Option 4 ID : 9380663500

Status : Answered

Chosen Option : 4

Q.60 National Mission for a Green India (GIM) is one of the eight missions under National Action Plan on Climate Change. Which of the following is NOT listed as an aim of Green India Mission for forest cover and response to climate change?

1. Conservation
2. Enhancement
3. Protection
4. Restoration

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 938066959

Option 1 ID : 9380663729

Option 2 ID : 9380663730

Option 3 ID : 9380663731

Option 4 ID : 9380663732

Status : Answered

Chosen Option : 2

Q.61 Arrange the following unit processes of sludge treatment from first to the last

- A. Stabilization
- B. Dewatering
- C. Conditioning
- D. Thickening
- E. Reduction

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066938**

Option 1 ID : **9380663645**

Option 2 ID : **9380663646**

Option 3 ID : **9380663647**

Option 4 ID : **9380663648**

Status : **Answered**

Chosen Option : **3**

Q.62 Consider the following are statements regarding visualization methods for describing data.

- A. we can calculate value of 55th percentile from Box-plots.
- B. Chernoff plot is a Hierarchical chart.
- C. In Pie-chart, area of circle is non-proportional to frequency of a particular categorical response.
- D. Ishikawa diagrams are used for visualizing the cause and effect relationship.
- E. Histogram is used for categorical data.

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066952**

Option 1 ID : **9380663701**

Option 2 ID : **9380663702**

Option 3 ID : **9380663703**

Option 4 ID : **9380663704**

Status : **Answered**

Chosen Option : **2**

Q.63 Which of the following best explains the rationale behind categorizing projects as Category A and Category B in the EIA Notification of 2006?

1. To allow public opinion to assess project approval.
2. To delegate simpler projects to state authorities and complex ones to the central government.
3. To ensure equal distribution of environmental responsibility.
4. To minimize delays in industrial development and national interest.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066943**

Option 1 ID : **9380663665**

Option 2 ID : **9380663666**

Option 3 ID : **9380663667**

Option 4 ID : **9380663668**

Status : **Answered**

Chosen Option : **2**

Q.64 Match the LIST-I with LIST-II

LIST-I Article		LIST-II Description	
A.	51 A (g)	I.	Protection of monuments and places and objects of national importance
B.	4	II.	To protect and improve the national environment including forest, lakes, rivers and wildlife, and to have compassion for living creatures
C.	48	III.	Protection and improvement of environment and safeguarding of forest and wildlife
D.	48A	IV.	Organization of agriculture and animal husbandry

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066951**

Option 1 ID : **9380663697**

Option 2 ID : **9380663698**

Option 3 ID : **9380663699**

Option 4 ID : **9380663700**

Status : **Answered**

Chosen Option : **2**

Q.65 The proportion of the assimilated food that is used to produce new consumer biomass is production efficiency.
Arrange the following ectothermic organisms in the increasing order of their production efficiency.

- A. Fishes
- B. Carnivores
- C. Herbivores
- D. Detritivores

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066899**

Option 1 ID : **9380663489**

Option 2 ID : **9380663490**

Option 3 ID : **9380663491**

Option 4 ID : **9380663492**

Status : **Answered**

Chosen Option : **4**

Q.66 Consider the following statements and choose the INCORRECT statement.

- 1. Diesel vehicles, operated 'fuel lean', produce less NO compared to gasoline vehicle.
- 2. More ozone will be formed in an area having high NO compared to NO₂ concentration in ambient atmosphere
- 3. Ozone was not present in highest quantity in London Smog
- 4. Aldehydes absorb sunlight with $\lambda < 315$ nm i.e., UV-B and some UV-A

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066890**

Option 1 ID : **9380663453**

Option 2 ID : **9380663454**

Option 3 ID : **9380663455**

Option 4 ID : **9380663456**

Status : **Answered**

Chosen Option : **3**

Q.67 Arrange the following states of India in the order of their ranking (top to bottom) in Swachh Survekshan 2023.

- A. Chattisgarh
- B. Madhya Pradesh
- C. Maharastra
- D. Odisha
- E. Telangana

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066962**

Option 1 ID : **9380663741**

Option 2 ID : **9380663742**

Option 3 ID : **9380663743**

Option 4 ID : **9380663744**

Status : **Answered**

Chosen Option : **2**

Q.68 Which of the following is NOT true for ecological succession?

- 1. Primary succession involves colonization of habitats devoid of life
- 2. In primary succession, colonizing species deal with more stressful conditions compared to species colonizing in secondary succession.
- 3. Secondary succession involves re-establishment of a community.
- 4. Colonizing species face less competition for resources in secondary succession compared to primary succession

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066898**

Option 1 ID : **9380663485**

Option 2 ID : **9380663486**

Option 3 ID : **9380663487**

Option 4 ID : **9380663488**

Status : **Answered**

Chosen Option : **4**

Q.69

Choose the correct mathematical expressions related to noise.

- A. Sound power (w) = Sound intensity (I) x Area (A)
- B. Sound period and frequency are inversely related
- C. Speed of sound in air, $C = 20.05 (\text{Temperature})^2$
- D. $L = 10 \log \frac{\text{measured quantity (Q)}}{\text{reference quantity}(Q_0)}$
- E. $I = \frac{(P_{rms})^2}{\rho c}$

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : MCQ

Question ID : 938066926

Option 1 ID : 9380663597

Option 2 ID : 9380663598

Option 3 ID : 9380663599

Option 4 ID : 9380663600

Status : Answered

Chosen Option : 1

Q.70

What will be the aerodynamic diameter of a spherical particle having diameter of 2 μm and density of 3 g/cm^3 ? Terminal velocity of spherical particle and the reference particle are same and the density of reference particle is 1 g/cm^3 .

- 1. ~ 6.0 μm
- 2. ~ 3.5 μm
- 3. ~ 2.0 μm
- 4. ~ 1.8 μm

Options 1.1

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

Question Type : MCQ

Question ID : 938066895

Option 1 ID : 9380663473

Option 2 ID : 9380663474

Option 3 ID : 9380663475

Option 4 ID : 9380663476

Status : Answered

Chosen Option : 3

Q.71 Arrange the following carbonaceous fuels in increasing order of their atomic H/C values

- A. Petroleum
- B. Peat
- C. Methane
- D. Lignite
- E. Anthracite

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066918**

Option 1 ID : **9380663565**

Option 2 ID : **9380663566**

Option 3 ID : **9380663567**

Option 4 ID : **9380663568**

Status : **Answered**

Chosen Option : **2**

Q.72 Which of the following is **INCORRECT** compositionally?

- 1. Rubbish does not contain garbage
- 2. Refuse contain both rubbish and garbage
- 3. Garbage contain both garbage and rubbish
- 4. Refuse have less water content (%) than garbage

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066942**

Option 1 ID : **9380663661**

Option 2 ID : **9380663662**

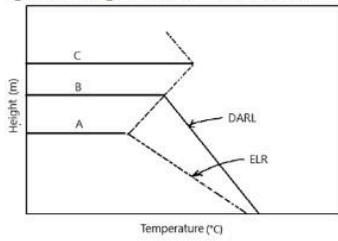
Option 3 ID : **9380663663**

Option 4 ID : **9380663664**

Status : **Answered**

Chosen Option : **1**

- Q.73** The atmospheric condition at a given time is shown in figure given below. If the average wind speed that prevailed was 10 m/s, what will be the ventilation coefficient?



1. 10 A m²/s
2. 10 B m²/s
3. 100 A m²/s
4. 10 C m²/s

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066877**

Option 1 ID : **9380663401**

Option 2 ID : **9380663402**

Option 3 ID : **9380663403**

Option 4 ID : **9380663404**

Status : **Answered**

Chosen Option : **2**

- Q.74** Choose the INCORRECT statement about lakes

1. Hypolimnion in lake is poorly mixed compared to Epilimnion.
2. As summer progresses, stability increases because epilimnion continues to warm while hypolimnion remain at fairly constant temperature.
3. Temperate lakes always have at least one cycles of stratification and turnover every year.
4. Lake stratification and turnover often causes eutrophication and is not good for health of lakes.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066930**

Option 1 ID : **9380663613**

Option 2 ID : **9380663614**

Option 3 ID : **9380663615**

Option 4 ID : **9380663616**

Status : **Answered**

Chosen Option : **1**

Q.75 Choose the INCORRECT statement about solar ponds.

1. Most common heat transfer fluid for a solar system is water.
2. Solar ponds must have salinity gradient with depth to collect and optimally store the energy.
3. Solar ponds store energy in upper convective zone (salinity <5%).
4. Solubility of salt in solar ponds should not vary appreciably with temperature.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066922

Option 1 ID : 9380663581

Option 2 ID : 9380663582

Option 3 ID : 9380663583

Option 4 ID : 9380663584

Status : Answered

Chosen Option : 4

Q.76 Arrange the following gases in decreasing order of their percentage abundance in atmosphere on dry basis.

- A. Carbon dioxide
- B. Argon
- C. Helium
- D. Neon
- E. Methane

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066880

Option 1 ID : 9380663413

Option 2 ID : 9380663414

Option 3 ID : 9380663415

Option 4 ID : 9380663416

Status : Answered

Chosen Option : 1

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

LIST-I Earthworm type		LIST-II Name	
A.	Common field worm	I.	<i>Helodrilus chloroticus</i>
B.	Manure worm	II.	<i>Diplocardia verrucosa</i>
C.	Green worm	III.	<i>Helodrilus caliginosus</i>
D.	Slim earthworm	IV.	<i>Eisenia foetida</i>

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066941**

Option 1 ID : **9380663657**

Option 2 ID : **9380663658**

Option 3 ID : **9380663659**

Option 4 ID : **9380663660**

Status : **Answered**

Chosen Option : **1**

Q.78 All the Sustainable Development Goals (SDGs), other than Partnership (Goal 17) represent Ecological, Social and Economic aspects. What are their respective numbers (out of 16)?

1. Ecological: Social : Economic = 4 : 6 : 6
2. Ecological: Social : Economic = 5 : 6 : 5
3. Ecological: Social : Economic = 4 : 8 : 4
4. Ecological: Social : Economic = 5 : 5 : 6

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066963**

Option 1 ID : **9380663745**

Option 2 ID : **9380663746**

Option 3 ID : **9380663747**

Option 4 ID : **9380663748**

Status : **Answered**

Chosen Option : **3**

Q.79 Arrange the following major stages of waste degradation in landfills starting from the first to the last

- A. Oxidation
- B. Aerobic degradation
- C. Acetogenesis
- D. Hydrolysis and fermentation
- E. Methanogenesis

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066939**

Option 1 ID : **9380663649**

Option 2 ID : **9380663650**

Option 3 ID : **9380663651**

Option 4 ID : **9380663652**

Status : **Answered**

Chosen Option : **2**

Q.80 Match the LIST-I with LIST-II

LIST-I (Chemical characteristics)		LIST-II (Rock type)	
A.	Phosphate	I.	Bauxite
B.	Sulphate	II.	Stromatolites
C.	Mg-Fe rich silicate	III.	Anhydrite
D.	Al oxyhydroxides	IV.	Basalt

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066910**

Option 1 ID : **9380663533**

Option 2 ID : **9380663534**

Option 3 ID : **9380663535**

Option 4 ID : **9380663536**

Status : **Answered**

Chosen Option : **2**

Q.81 Which of the following are components of Monitoring and Feedback in ecological impact analysis process?

- A. To determine the significance and importance of prediction
- B. To identify and predict impacts on ecosystem component
- C. To provide opportunities for corrective action in light of unforeseen outcomes
- D. To reduce significant adverse effects
- E. To strengthen the knowledge base

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066950**

Option 1 ID : **9380663693**

Option 2 ID : **9380663694**

Option 3 ID : **9380663695**

Option 4 ID : **9380663696**

Status : **Answered**

Chosen Option : **4**

Q.82 Which of the following is most important analog of DDT that have same general size, shape and possess the same insecticidal properties but is more biodegradable and less bioaccumulative ?

- 1. Para-dichlorodiphenyldichloroethane (DDD)
- 2. DDA
- 3. Methoxy chlor
- 4. Toxaphene

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066889**

Option 1 ID : **9380663449**

Option 2 ID : **9380663450**

Option 3 ID : **9380663451**

Option 4 ID : **9380663452**

Status : **Answered**

Chosen Option : **1**

Q.83 Which of the following are examples of empirical classification of world climates?

- A. Bergeron and Spatial
- B. Koppen
- C. Oliver-Hidore
- D. Thornthwaite
- E. Trewartha

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066881**

Option 1 ID : **9380663417**

Option 2 ID : **9380663418**

Option 3 ID : **9380663419**

Option 4 ID : **9380663420**

Status : **Answered**

Chosen Option : **4**

Q.84

Which of the following cloud types are found in stratosphere?

- A. Cirrus clouds
- B. Cumulonimbus clouds
- C. Mother of Pearl clouds
- D. Nacreous clouds
- E. Noctilucent clouds

Choose the correct answer from the options given below:

- 1. A, C and D Only
- 2. B, D and E 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 : **938066885**

Option 1 ID : **9380663433**

Option 2 ID : **9380663434**

Option 3 ID : **9380663435**

Option 4 ID : **9380663436**

Status : **Answered**

Chosen Option : **1**

Q.85 Read the following statements

- A. In the northern hemisphere Coriolis effect and frictional forces deflect winds to the right, producing clockwise circulation
- B. Principle climatic zones in the world are defined in terms of yearly average precipitation
- C. Altitude, mountains, large bodies of water and ocean currents majorly affect regional climate
- D. Negative values of Southern Oscillation Regional Climate Index are usually associated with El Nino events
- E. La Nina refers to the times when tropical Pacific is warmer than normal

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066913**

Option 1 ID : **9380663545**

Option 2 ID : **9380663546**

Option 3 ID : **9380663547**

Option 4 ID : **9380663548**

Status : **Answered**

Chosen Option : **1**

Q.86 Select the INCORRECT statement about population growth.

- 1. In the population with a type I survivorship curve, new borne, juveniles and young adults, all have high survival rates.
- 2. In the population with a type II survivorship curve, individuals have approximately constant chance of surviving from one generation to the next in their life span.
- 3. In the population with a type III survivorship curve, death rates are very high for young individuals.
- 4. Survivorship curves can not vary among population of a species between males and females in a population.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066902**

Option 1 ID : **9380663501**

Option 2 ID : **9380663502**

Option 3 ID : **9380663503**

Option 4 ID : **9380663504**

Status : **Answered**

Chosen Option : **1**

Q.87 Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Pressure is enough to allow free flow of water above ground	I.	Cone of depression
B.	Water is withdrawn faster than its replenishment	II.	Piezometric surface
C.	Elevation to which water rises in the aquifer	III.	Artesian well
D.	Zone of water between aquicludes	IV.	Confined water

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066912**

Option 1 ID : **9380663541**

Option 2 ID : **9380663542**

Option 3 ID : **9380663543**

Option 4 ID : **9380663544**

Status : **Answered**

Chosen Option : **1**

Q.88

Consider the following statements about parasites.

- A. Hemiparasite extract water and minerals nutrients from host.
- B. Hemiparasite have green leaves and can photosynthesize.
- C. Hemiparasite do not rely exclusively on the host for carbohydrates
- D. Corn smut fungus is an example of ectoparasite
- E. Ectoparasite does not have ease of dispersal in environment

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066904

Option 1 ID : 9380663509

Option 2 ID : 9380663510

Option 3 ID : 9380663511

Option 4 ID : 9380663512

Status : Answered

Chosen Option : 2

Q.89

The Principle of Absolute Liability, evolved in Indian environmental jurisprudence, is primarily associated with which of the following landmark case?

- 1. Indian Council of Enviro-legal action Vs Union of India (1996)
- 2. M.C. Mehta Vs Kamal Nath (1997)
- 3. M.C. Mehta Vs Union of India (Oleum Gas leak, 1987)
- 4. Vellore Citizens Welfare Forum Vs Union of India (1996)

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : MCQ

Question ID : 938066946

Option 1 ID : 9380663677

Option 2 ID : 9380663678

Option 3 ID : 9380663679

Option 4 ID : 9380663680

Status : Answered

Chosen Option : 2

Q.90 Match the **LIST-I** with **LIST-II**

LIST-I (Soil Type)		LIST-II (Major Characteristics)	
A.	Vertisols	I.	Little profile development, ochric epipedon common
B.	Histosols	II.	Usually formed on volcanic ash dominated by allophane
C.	Entisols	III.	High in swelling clays, deep cracks in dried soils
D.	Andisols	IV.	Undergone little profile development, >20% organic matter

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

1. A-II, B-IV, C-III, D-I
2. A-I, B-II, C-IV, D-III
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 : **938066909**

Option 1 ID : **9380663529**

Option 2 ID : **9380663530**

Option 3 ID : **9380663531**

Option 4 ID : **9380663532**

Status : **Answered**

Chosen Option : **1**

Q.91 Arrange the following steps of an idealized EIA process in order of execution

- A. Assessment
- B. Audit
- C. Decision Making
- D. Evaluation
- E. Mitigation

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066947**

Option 1 ID : **9380663681**

Option 2 ID : **9380663682**

Option 3 ID : **9380663683**

Option 4 ID : **9380663684**

Status : **Answered**

Chosen Option : **4**

Q.92 Which of the following is INCORRECT about nuclear power plants used for energy generation?

- 1. The only naturally occurring Uranium isotope that can undergo fission is ^{235}U .
- 2. Control rods in fission reactors are made from Graphite, neutron absorbing element.
- 3. Breeder reactors produce more fissionable materials than they consume.
- 4. Thermal breeder reactor converts ^{232}Th by neutron absorption and beta decay into ^{233}U .

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066916**

Option 1 ID : **9380663557**

Option 2 ID : **9380663558**

Option 3 ID : **9380663559**

Option 4 ID : **9380663560**

Status : **Answered**

Chosen Option : **2**

Q.93 In an aquatic system, high consumption rates (herbivores) and relatively short life spans of the primary producers (phytoplankton) result in an inverted pyramid of biomass relative to pyramid of energy. Which of the following are correct?

- A. Biomass of heterotrophs is greater at any given time than biomass of the autotrophs.
- B. Energy produced by autotrophs is greater than that produced by heterotrophs.
- C. Inverted pyramid of biomass are most common in nutrient poor water with low autotroph biomass.
- D. Detritus makes lower proportional contribution to energy flow in nutrient poor water than in nutrient rich water.
- E. Biomass ratio (heterotrophs/autotrophs) of above one indicate inverted pyramid.

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066908**

Option 1 ID : **9380663525**

Option 2 ID : **9380663526**

Option 3 ID : **9380663527**

Option 4 ID : **9380663528**

Status : **Answered**

Chosen Option : **3**

Q.94 Arrange the following statements regarding calculations of Chi-square test statistic for assessing association between two categorical variables in the correct sequence.

- A. Calculate value of χ^2 statistic.
- B. Calculate expected cell frequencies.
- C. Assess degree of freedom.
- D. Tabulate data in contingency table.
- E. Compare calculated value with critical value and take decision.

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066956**

Option 1 ID : **9380663717**

Option 2 ID : **9380663718**

Option 3 ID : **9380663719**

Option 4 ID : **9380663720**

Status : **Answered**

Chosen Option : **4**

Q.95 Choose the CORRECT statements about air pollution control methods.

- A. Impaction of particles is directly proportional to particle density and diameter squared.
- B. Probability of resuspension of particles is inversely proportional to particle diameter.
- C. In cyclones, force produced by rotational motion of fluid is directly proportional to square of terminal velocity.
- D. Activated alumina and sulfuric acid are common water vapor collection materials used in demisters.
- E. Bag houses dust collector does not work on the principle of sedimentation and electrostatic attraction of particles.

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066932**

Option 1 ID : **9380663621**

Option 2 ID : **9380663622**

Option 3 ID : **9380663623**

Option 4 ID : **9380663624**

Status : **Answered**

Chosen Option : **2**

Q.96 Arrange the following terrestrial biomes in the decreasing order of their global average Net Primary Productivity ($\text{g/m}^2/\text{yr}$).

- A. Boreal Forest
- B. Temperate Grassland
- C. Tropical Forest
- D. Temperate forest
- E. Crops

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066900**

Option 1 ID : **9380663493**

Option 2 ID : **9380663494**

Option 3 ID : **9380663495**

Option 4 ID : **9380663496**

Status : **Answered**

Chosen Option : **1**

Q.97 Match the LIST-I with LIST-II

LIST-I Reduction in Ambient temperature with height is γ . Dry and saturated adiabatic lapse rates are γ_d and γ_s , respectively		LIST-II Stability class	
A.	$\gamma < \gamma_s$	I.	Absolutely Unstable
B.	$\gamma > \gamma_d$	II.	Conditionally Unstable
C.	$\gamma = \gamma_d$	III.	Absolutely Stable
D.	$\gamma_s > \gamma > \gamma_d$	IV.	Dry Neutral

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

1. A-I, B-III, C-IV, D-II
2. A-III, B-II, C-IV, D-I
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 : **938066882**

Option 1 ID : **9380663421**

Option 2 ID : **9380663422**

Option 3 ID : **9380663423**

Option 4 ID : **9380663424**

Status : **Answered**

Chosen Option : **2**

Q.98 The solid organic fraction of _____ are mainly derived from lower plants lacking lignocellulosic tissues.

1. Bituminous coal
2. Bituminous shales
3. Lignite
4. Anthracite

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066915**

Option 1 ID : **9380663553**

Option 2 ID : **9380663554**

Option 3 ID : **9380663555**

Option 4 ID : **9380663556**

Status : **Answered**

Chosen Option : **1**

Q.99

Which of the following is NOT true for composting of waste?

1. Moisture should not be present.
2. Particle size must be less than 5 cm.
3. Compost increases moisture holding capacity of soil.
4. Carbon to nitrogen ratio must be in the range of 20-25 to 1.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066934**Option 1 ID : **9380663629**Option 2 ID : **9380663630**Option 3 ID : **9380663631**Option 4 ID : **9380663632**Status : **Answered**Chosen Option : **2**

Q.100

In an open system, which of the following does not partition between the gas and aqueous phase?

1. CO₂
2. NH₃
3. H₃PO₄
4. H₂S

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066892**Option 1 ID : **9380663461**Option 2 ID : **9380663462**Option 3 ID : **9380663463**Option 4 ID : **9380663464**Status : **Answered**Chosen Option : **3**

Q.101 Which of the following is NOT an element and component of hazard and risk assessment of waste?

1. Process knowledge and documentation
2. Process and equipment integrity
3. Reduction in use of hazardous substances
4. Standards, codes, laws and practices

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066937**

Option 1 ID : **9380663641**

Option 2 ID : **9380663642**

Option 3 ID : **9380663643**

Option 4 ID : **9380663644**

Status : **Answered**

Chosen Option : **4**

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

LIST-I (Class)		LIST-II (Disease)	
A.	Water borne	I.	Trachoma
B.	Water based	II.	Yellow fever
C.	Water washed	III.	Typhoid
D.	Water related	IV.	Schistosomiasis

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

1. A-III, B-II, C-I, D-IV
2. A-II, B-III, C-IV, D-I
3. A-III, B-IV, C-I, 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 : **938066905**

Option 1 ID : **9380663513**

Option 2 ID : **9380663514**

Option 3 ID : **9380663515**

Option 4 ID : **9380663516**

Status : **Answered**

Chosen Option : **1**

Q.103 Consider the following statements about HPLC

- In normal phase HPLC, the stationary phase is non-polar and the mobile phase is polar.
- In normal phase HPLC, the least polar compound eludes first and increasing polarity of mobile phase decreases elution time.
- In reverse phase HPLC, the most polar compound eludes first and increasing polarity of mobile phase increases elution time.
- In the isocratic mode of HPLC analysis, the polarity of mobile phase remains unchanged throughout the run.
- The resolution of analysis depends on proper balance of intermolecular forces among the analyte, the mobile phase and the stationary phase.

Choose the correct answer from the options given below:

- B, C and D Only
- A, C, D and E Only
- B, C, D and E Only
- A, B, C and E Only

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066896**

Option 1 ID : **9380663477**

Option 2 ID : **9380663478**

Option 3 ID : **9380663479**

Option 4 ID : **9380663480**

Status : **Answered**

Chosen Option : **3**

Q.104 Match the LIST-I with LIST-II

LIST-I National Park		LIST-II River	
A.	Dudhawa	I.	Jhelum
B.	Kalesar	II.	Sharda
C.	Kazinag	III.	Teesta
D.	Khangchendzonga	IV.	Yamuna

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

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066965**

Option 1 ID : **9380663753**

Option 2 ID : **9380663754**

Option 3 ID : **9380663755**

Option 4 ID : **9380663756**

Status : **Answered**

Chosen Option : **3**

Q.105 Match the **LIST-I** with **LIST-II**

LIST-I Ways of expressing probabilities		LIST-II Situations expressing probabilities	
A.	Decimal Notations	I.	Random variables
B.	Scientific Notations	II.	Conversions
C.	Percentage	III.	Computations
D.	Pictorial Form	IV.	For low probabilities

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

1. A-I, B-II, C-IV, D-III
2. A-III, B-IV, C-II, D-I
3. A-IV, B-III, C-I, 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 : **938066955**

Option 1 ID : **9380663713**

Option 2 ID : **9380663714**

Option 3 ID : **9380663715**

Option 4 ID : **9380663716**

Status : **Answered**

Chosen Option : **1**

Q.106 Which of the following statements regarding statistical tool to assess various aspects of a relationship is /are true?

- A. For assessing agreement between two quantitative variables, Cohen's Kappa is used.
- B. The residuals in a linear relationship should follow normal distribution.
- C. For assessing strength of relationship between exposure and outcome (yes Vs no), relative risk is used.
- D. When dependent variable is quantitative and one independent variable is non-linear, we do Curvi linear regression.
- E. There are three parameters for expressing linear relationship between one dependent and one independent variable (both quantitative).

Choose the most appropriate answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066953**

Option 1 ID : **9380663705**

Option 2 ID : **9380663706**

Option 3 ID : **9380663707**

Option 4 ID : **9380663708**

Status : **Answered**

Chosen Option : **4**

Q.107

Consider the following statements and choose the INCORRECT statement.

1. Chromate ions are soluble in water.
2. Arsenate ion are insoluble in water
3. Arsenite is more toxic than arsenate
4. Chromite is more toxic than chromate .

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066888**Option 1 ID : **9380663445**Option 2 ID : **9380663446**Option 3 ID : **9380663447**Option 4 ID : **9380663448**Status : **Answered**Chosen Option : **3**

Q.108

In an absorbed dose of 0.2 Gy of slow neutron radiation produces the same biological effect as 2 Gy of gamma radiation, then the relative biological effectiveness for slow neutron would be _____.

1. 2.2
2. 0.1
3. 0.2
4. 10

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **938066929**Option 1 ID : **9380663609**Option 2 ID : **9380663610**Option 3 ID : **9380663611**Option 4 ID : **9380663612**Status : **Answered**Chosen Option : **2**

Q.109

How deep into Earth, plate recycling occurs?

1. Crust – mantle boundary
2. Lithosphere –Asthenosphere boundary
3. Upper mantle –lower mantle boundary
4. Mantle-core boundary

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066911**Option 1 ID : **9380663537**Option 2 ID : **9380663538**Option 3 ID : **9380663539**Option 4 ID : **9380663540**Status : **Answered**Chosen Option : **2**

Q.110

Choose the CORRECT statements about biological degradation of waste:

- A. End product of biological degradation is always less toxic than parent compound.
- B. pH of soils play vital role and at low pH fungi dominates and likely to form epoxide.
- C. Persistence is a 'conditional' property of biodegradable compounds.
- D. Mineralization is the complete conversion of an organic compound to the end products of CO₂ and water.
- E. Recalcitrant compounds cannot be biodegraded under any circumstances.

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066940**Option 1 ID : **9380663653**Option 2 ID : **9380663654**Option 3 ID : **9380663655**Option 4 ID : **9380663656**Status : **Answered**Chosen Option : **4**

Q.111 Choose the INCORRECT statement

1. Clay particles act as colloids in water.
2. The pH of soils tends to buffer against large increase in pH as they have reserve acidity
3. Precipitation reactions does not help in retaining heavy metals in soils
4. Replacement of natural long rooted vegetation by wheat and other shallow rooted crops can increase soil salinity

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066931**

Option 1 ID : **9380663617**

Option 2 ID : **9380663618**

Option 3 ID : **9380663619**

Option 4 ID : **9380663620**

Status : **Answered**

Chosen Option : **2**

Q.112 From the analysis of water given below, calculate the amount of lime and soda (in mg/l as CaCO_3) necessary to soften water to 90.0 mg/l as CaCO_3 :

Composition of water (mg/l as CaCO_3)		
$\text{Ca}^{2+} = 159.2$	$\text{CO}_2 = 29.3$	$\text{HCO}_3^- = 195.0$
$\text{Mg}^{2+} = 75.8$		$\text{SO}_4^- = 39.8$
$\text{Na}^+ = 27.4$		$\text{Cl}^- = 27.6$

1. ~ 235 and ~ 60
2. ~ 296 and no soda ash
3. ~ 262 and ~ 34
4. ~ 235 and no soda ash

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066928**

Option 1 ID : **9380663605**

Option 2 ID : **9380663606**

Option 3 ID : **9380663607**

Option 4 ID : **9380663608**

Status : **Answered**

Chosen Option : **3**

Q.113 How many methodologies under 'offset mechanism' of the Carbon Credit Trading Scheme (CCTS, 2023), allowing non-obligated entities to participate in voluntary climate mitigation projects, are proposed by the Government of India?

1. 5
2. 6
3. 8
4. 12

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066957**

Option 1 ID : **9380663721**

Option 2 ID : **9380663722**

Option 3 ID : **9380663723**

Option 4 ID : **9380663724**

Status : **Answered**

Chosen Option : **1**

Q.114 Which of the following rules came in existence in the same calendar year in India?

- A. The Hazardous and other Waste (Management and Transboundary Movement) Rules
- B. The Batteries (Management and Handling) Rules
- C. The Biomedical Waste Management Rules
- D. The Solid Waste Management Rules
- E. The Public Liability Insurance Rules

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066949**

Option 1 ID : **9380663689**

Option 2 ID : **9380663690**

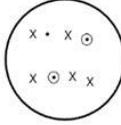
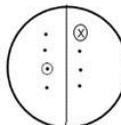
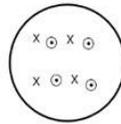
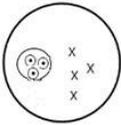
Option 3 ID : **9380663691**

Option 4 ID : **9380663692**

Status : **Answered**

Chosen Option : **2**

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

	LIST-I Sampling frame (Circles denotes unit selected)		LIST-II Sampling Procedure
A.		I.	Systematic Sampling
B.		II.	Cluster Sampling
C.		III.	Simple Random Sampling
D.		IV.	Stratified Random Sampling

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066954**

Option 1 ID : **9380663709**

Option 2 ID : **9380663710**

Option 3 ID : **9380663711**

Option 4 ID : **9380663712**

Status : **Answered**

Chosen Option : **2**

Q.116 Consider the following statements about bioremediation

- A. One of the most common limiting factor for in-situ biodegradation in saturated zone is availability of oxygen.
- B. N and P are common additives which enhance rate of biodegradation.
- C. Bioventing and bio accessibility adversely impact biodegradation in vadose zone.
- D. Methanotropic organism are involved in /example of cometabolism biodegradation.
- E. In-situ biodegradation applications are based only on aerobic biodegradation.

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066907**

Option 1 ID : **9380663521**

Option 2 ID : **9380663522**

Option 3 ID : **9380663523**

Option 4 ID : **9380663524**

Status : **Answered**

Chosen Option : **2**

Q.117 The endangered species _____.

- 1. have a 50% or greater probability of extinction within 10 years
- 2. have a 50% or greater probability of extinction within 20 years
- 3. have a 20% or greater probability of extinction within 10 years
- 4. have a 20% or greater probability of extinction within 20 years

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066903**

Option 1 ID : **9380663505**

Option 2 ID : **9380663506**

Option 3 ID : **9380663507**

Option 4 ID : **9380663508**

Status : **Answered**

Chosen Option : **1**

Q.118

Choose the INCORRECT statement about heat islands.

1. Low surface albedo is a likely cause of urban heat
2. Surface albedo is also referred to as shortwave reflectivity.
3. Shading and evapotranspiration by urban forestry cause urban heating
4. Cool roofs/green roofs have high reflectivity and cause urban cooling.

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066933**Option 1 ID : **9380663625**Option 2 ID : **9380663626**Option 3 ID : **9380663627**Option 4 ID : **9380663628**Status : **Answered**Chosen Option : **3**

Q.119

Remote sensing sensors can work on wavelengths 8 to 14 μm and 3 to 5 μm . Based on which of the following laws, wavelength of 8 to 14 μm is chosen to collect data?

1. Kirchoff's Law
2. Plank's Law
3. Stefan Boltzman Law
4. Wien's Displacement Law

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**Question ID : **938066879**Option 1 ID : **9380663409**Option 2 ID : **9380663410**Option 3 ID : **9380663411**Option 4 ID : **9380663412**Status : **Answered**Chosen Option : **4**

Q.120 Match the LIST-I with LIST-II

LIST-I Substance		LIST-II Application	
A.	Magnesium hydroxide; $pK_s = 11.2$	I.	Coagulation
B.	Calcium carbonate; $pK_s = 8.3$	II.	Coagulation and iron removal
C.	Ferric hydroxide; $pK_s = 38.5$	III.	Softening, corrosion control
D.	Aluminum hydroxide; $pK_s = 33$	IV.	Softening

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

1. A-I, B-III, C-II, D-IV
2. A-IV, B-II, C-III, D-I
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 : 938066927

Option 1 ID : 9380663601

Option 2 ID : 9380663602

Option 3 ID : 9380663603

Option 4 ID : 9380663604

Status : **Answered**

Chosen Option : 3

Q.121 Arrange the following geological/paleoclimate events from oldest to youngest

- A. Setting up of Monsoon climate on the Indian subcontinent
- B. Appearance of Homo Sapiens
- C. Appearance of free oxygen on the earth
- D. Last Glacial Maximum
- E. Deposition of Gondwana coals

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : 938066914

Option 1 ID : 9380663549

Option 2 ID : 9380663550

Option 3 ID : 9380663551

Option 4 ID : 9380663552

Status : **Answered**

Chosen Option : 3

Q.122 Consider the following statements about solubility of gases in surface water.

- A. Equilibrium concentration of a dissolved gas in water as per Henry's law is referred to as its saturation value
- B. There may be more dissolved gas in water than its saturation value in water
- C. It is more common for a dissolved gas to be present in less amount in water than its saturation value in water
- D. The excess or deficit of a dissolved gas compared to its saturation value cannot be brought back to saturation level in water
- E. Solubility of gas depends on partial pressure of the gas but is independent of purity of water

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066893**

Option 1 ID : **9380663465**

Option 2 ID : **9380663466**

Option 3 ID : **9380663467**

Option 4 ID : **9380663468**

Status : **Answered**

Chosen Option : **4**

Q.123 Which of the following process in gassification of waste is endothermic?

- 1. $C + O_2 \rightarrow CO_2$
- 2. $C + H_2O \rightarrow CO + H_2$
- 3. $C + 2H_2 \rightarrow CH_4$
- 4. $2C + O_2 \rightarrow 2CO$

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066935**

Option 1 ID : **9380663633**

Option 2 ID : **9380663634**

Option 3 ID : **9380663635**

Option 4 ID : **9380663636**

Status : **Answered**

Chosen Option : **2**

Q.124 Consider the following statements and Choose the INCORRECT statement

1. Ozone partially absorbs UV-B in stratosphere
2. Conversion of inactive to active chlorine occur at surface of particles formed by solution of H_2O , H_2SO_4 , and HNO_3
3. Bromine containing hydrogen free substances 'Halons' do not have ozone depleting potential
4. Denitrification of lower stratosphere extends life of the Antarctic ozone hole

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066891**

Option 1 ID : **9380663457**

Option 2 ID : **9380663458**

Option 3 ID : **9380663459**

Option 4 ID : **9380663460**

Status : **Answered**

Chosen Option : **3**

Q.125 Choose the CORRECT statements

- A. Thermosetting plastic is easier to recycle compared to thermoplastic
- B. Microplastic include plastic size less than $5\ \mu\text{m}$ only
- C. Thermal depolymerisation involves the conversion of assorted polymers into petroleum.
- D. Incineration is not an environment friendly option to dispose plastic waste
- E. Recycled PET can be used effectively for making variety of fabrics

Choose the correct answer from the options given below:

1. A, C and E Only
2. C, D and E Only
3. B, 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 : **938066936**

Option 1 ID : **9380663637**

Option 2 ID : **9380663638**

Option 3 ID : **9380663639**

Option 4 ID : **9380663640**

Status : **Answered**

Chosen Option : **3**

Q.126 Choose the INCORRECT statement

1. Components of air quality standards are the indicator, an averaging time, the form and the level.
2. Primary air quality standards are more restrictive than the secondary.
3. Primary and Secondary air quality standards are periodically reviewed every year.
4. Agriculture operations and urban centers are examples of distributed sources of air pollution.

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066923**

Option 1 ID : **9380663585**

Option 2 ID : **9380663586**

Option 3 ID : **9380663587**

Option 4 ID : **9380663588**

Status : **Answered**

Chosen Option : **2**

Q.127 Which of the following are likely consequences of global climate change?

- A. It will increase acidity of oceans.
- B. Labile pool of C in soils will mobilise much faster.
- C. It may accelerate soil salinization.
- D. It exacerbated the incidence of coral bleaching.
- E. Argonite will be more likely to dissolve into seawater.

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066964**

Option 1 ID : **9380663749**

Option 2 ID : **9380663750**

Option 3 ID : **9380663751**

Option 4 ID : **9380663752**

Status : **Answered**

Chosen Option : **4**

Q.128 Which of the following was NOT a cause of dispersed radioactivity during nuclear power plant accident in Chernobyl, Ukraine in the year 1985?

1. ^{131}Xe and ^{85}K
2. ^{131}I
3. ^{239}Pu
4. ^{134}Cs and ^{137}Cs

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066960**

Option 1 ID : **9380663733**

Option 2 ID : **9380663734**

Option 3 ID : **9380663735**

Option 4 ID : **9380663736**

Status : **Answered**

Chosen Option : **4**

Q.129 Consider the following statements about analysis on analytical instruments and data quality.

- A. Minimum detection limit (MDL) is three time of σ_{n-1} of blank concentration
- B. Minimum quantification limit (MQL) is 7-10 times of σ_{n-1} of blank concentration
- C. Lower concentration limit of a working linear range must be greater than the defined MDL
- D. Relative standard deviation is used as a measure of precision of the data
- E. An analytical data with high precision may or may not be accurate

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066897**

Option 1 ID : **9380663481**

Option 2 ID : **9380663482**

Option 3 ID : **9380663483**

Option 4 ID : **9380663484**

Status : **Answered**

Chosen Option : **2**

Q.130 The Gaussian Plume Equation is given as below:

$$C(x, y) = \frac{Q}{\pi \mu \sigma_y \sigma_z} \left(\exp \frac{-H^2}{2 \sigma_z^2} \right) \left(\exp \frac{-y^2}{2 \sigma_y^2} \right)$$

Which of the following statements are correct?

- A. σ_y and σ_z are standard deviations of vertical and horizontal Gaussian distributions, respectively.
- B. Smaller values of the dispersion coefficients will give broader Gaussian curve.
- C. As we move downwind from the stack, the Gaussian curve spread further.
- D. As we move downwind from the stack, the dispersion coefficients become larger.
- E. Above equation is uniformly applicable to any terrain and temperature profile of atmosphere.

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066925**

Option 1 ID : **9380663593**

Option 2 ID : **9380663594**

Option 3 ID : **9380663595**

Option 4 ID : **9380663596**

Status : **Answered**

Chosen Option : **3**

Q.131 Which of the following key term is NOT included in the definition of Disaster in the Disaster Management Act of 2005?

- 1. Calamity
- 2. Catastrophe
- 3. Mishap
- 4. Risk

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066961**

Option 1 ID : **9380663737**

Option 2 ID : **9380663738**

Option 3 ID : **9380663739**

Option 4 ID : **9380663740**

Status : **Answered**

Chosen Option : **3**

Q.132 Match the LIST-I with LIST-II

LIST-I Spectral Index		LIST-II Expression	
A.	Bareness (NDBaI)	I.	$\frac{G - SWIR}{G + SWIR}$
B.	Built-up (NDBI)	II.	$\frac{NIR - SWIR}{NIR + SWIR}$
C.	Moisture (NDWI)	III.	$\frac{SWIR - NIR}{SWIR + NIR}$
D.	Snow (NDSI)	IV.	$\frac{SWIR - TIR}{SWIR + TIR}$

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066883**

Option 1 ID : **9380663425**

Option 2 ID : **9380663426**

Option 3 ID : **9380663427**

Option 4 ID : **9380663428**

Status : **Answered**

Chosen Option : **1**

Q.133

Average solar radiation incident at the top of Earth's atmosphere is 342 Wm^{-2} . The global planetary albedo is 0.30, and 67 Wm^{-2} of incident radiation is absorbed by atmosphere. On an average, 390 Wm^{-2} is lost from the Earth's surface as IR, but the Earth absorbed 80% of the form of IR emitted downward by the atmosphere. If the global average sensible heat flux away from the surface is 24 Wm^{-2} . Calculate the global latent heat flux.

1. $\sim 78 \text{ Wm}^{-2}$
2. $\sim 70 \text{ Wm}^{-2}$
3. $\sim 172 \text{ Wm}^{-2}$
4. $\sim 48 \text{ Wm}^{-2}$

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066878**

Option 1 ID : **9380663405**

Option 2 ID : **9380663406**

Option 3 ID : **9380663407**

Option 4 ID : **9380663408**

Status : **Answered**

Chosen Option : **2**

Q.134 Which of the following is not among the four stages of risk assessment?

1. Dose – response assessment
2. Exposure assessment
3. Hazard identification
4. Risk management

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066944**

Option 1 ID : **9380663669**

Option 2 ID : **9380663670**

Option 3 ID : **9380663671**

Option 4 ID : **9380663672**

Status : **Answered**

Chosen Option : **1**

Q.135 Consider the following statements and choose the CORRECT statements about organic compounds (OCs)

- A. The OCs are usually combustible and less soluble in water
- B. Several OCs exist for a given formula
- C. Reaction of OCs are usually ionic than molecular
- D. The OCs can be derived from nature, by synthesis, by fermentation
- E. Saturated hydrocarbons (Paraffins) are quite inert towards most chemical reagents.

Choose the correct answer from the options given below:

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066894**

Option 1 ID : **9380663469**

Option 2 ID : **9380663470**

Option 3 ID : **9380663471**

Option 4 ID : **9380663472**

Status : **Answered**

Chosen Option : **2**

Q.136 A toxic substance is present at 10 mg/l (=10ppm) level in water. Arrange the following subjects (A, B, C, D and E) in decreasing order of their daily dose in ($\text{mg kg}^{-1} \text{ day}^{-1}$) of this substance.

- A. Subject taking 2 liters of water per day and have body weight of 50 kg.
- B. Subject taking 2 liters of water per day and have body weight of 70 kg.
- C. Subject taking 1 liters of water per day and have body weight of 10 kg.
- D. Subject taking 5 liters of water per day and have body weight of 100 kg.
- E. Subject taking 1 liters of water per day and have body weight of 70 kg.

Choose the correct answer from the options given below:

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

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066906**

Option 1 ID : **9380663517**

Option 2 ID : **9380663518**

Option 3 ID : **9380663519**

Option 4 ID : **9380663520**

Status : **Answered**

Chosen Option : **2**

Q.137 Electric power generated from an ideal wind turbines is _____.

- 1. Proportional to square root of wind velocity
- 2. proportional to cube of wind velocity
- 3. proportional to square root of radius of the turbines
- 4. inversely proportional to density of air

Options 1.1

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

Question Type : **MCQ**

Question ID : **938066917**

Option 1 ID : **9380663561**

Option 2 ID : **9380663562**

Option 3 ID : **9380663563**

Option 4 ID : **9380663564**

Status : **Answered**

Chosen Option : **2**

Q.138 Match the **LIST-I** with **LIST-II**

LIST-I (Coal Lithotypes)		LIST-II (Composition)	
A.	Vitrain	I.	Mainly inertinite and exinite macerals
B.	Cannel coal	II.	Mainly fusinite
C.	Durain	III.	Vitrinite macerals with <20% exinite macerals
D.	Fusain	IV.	Dominated by alginite

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

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066921**

Option 1 ID : **9380663577**

Option 2 ID : **9380663578**

Option 3 ID : **9380663579**

Option 4 ID : **9380663580**

Status : **Answered**

Chosen Option : **3**

Q.139 In a fertile pond (water body), the region where the light intensity is usually too low for photosynthesis and only community respiration occurs. The area where respiration (R) is greater than primary production (P), i.e. $P/R < 1$, is called as _____.

1. limnetic zone
2. profundal zone
3. pelagic zone
4. littoral zone

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066958**

Option 1 ID : **9380663725**

Option 2 ID : **9380663726**

Option 3 ID : **9380663727**

Option 4 ID : **9380663728**

Status : **Answered**

Chosen Option : **4**

Q.140 Arrange the following stages of coal development from lower to higher grade.

- A. Dehydration
- B. Peatification
- C. Bituminization
- D. Debituminization
- E. Graphitization

Choose the correct answer from the options given below:

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

Options 1.1

- 2.2
- 3.3
- 4.4

Question Type : **MCQ**

Question ID : **938066966**

Option 1 ID : **9380663757**

Option 2 ID : **9380663758**

Option 3 ID : **9380663759**

Option 4 ID : **9380663760**

Status : **Answered**

Chosen Option : **4**

Comprehension:**Read the following passage and answer the question:**

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance. Read the above passage and answer the following questions:

SubQuestion No : 141

Q.141 Which of the following is mainly contributed to the sea water composition by volcanic activities?

1. Na^+
2. HCO_3^-
3. Cl^-
4. K^+

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066971**

Option 1 ID : **9380663773**

Option 2 ID : **9380663774**

Option 3 ID : **9380663775**

Option 4 ID : **9380663776**

Status : **Answered**

Chosen Option : **2**

Comprehension:**Read the following passage and answer the question:**

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance. Read the above passage and answer the following questions:

SubQuestion No : 142**Q.142****Which of the following represents steepest geothermal gradient?**

1. Continent-continent Collision mountains
2. Subduction zone
3. Mid Oceanic Ridges
4. Old and thick lithosphere

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066968****Option 1 ID : 9380663761****Option 2 ID : 9380663762****Option 3 ID : 9380663763****Option 4 ID : 9380663764****Status : Answered****Chosen Option : 3**

Comprehension:**Read the following passage and answer the question:**

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance. Read the above passage and answer the following questions:

SubQuestion No : 143**Q.143**

Cobalt, Nickel and lanthanides belong to _____.

1. Rare earth elements
2. Critical metals
3. Hydrothermal elements
4. Chalcophile elements

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066972****Option 1 ID : 9380663777****Option 2 ID : 9380663778****Option 3 ID : 9380663779****Option 4 ID : 9380663780****Status : Answered****Chosen Option : 3**

Comprehension:**Read the following passage and answer the question:**

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance. Read the above passage and answer the following questions:

SubQuestion No : 144

Q.144 Formation of polymetallic nodules on the surface of ocean indicates _____.

1. anoxic environment
2. oxic environment
3. very low pH conditions
4. high salinity conditions

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 938066970

Option 1 ID : 9380663769

Option 2 ID : 9380663770

Option 3 ID : 9380663771

Option 4 ID : 9380663772

Status : Answered

Chosen Option : 1

Comprehension:**Read the following passage and answer the question:**

Hydrothermal fluids at spreading centers of Mid Oceanic Ridges originate due to circulation of sea water through hot volcanic rocks. Heated rocks and deeper magmas pull in the cold seawater, heat it and then pull out the hydrothermal fluid- the hot water. The hydrothermal water laden with metals and many other elements returns back into the overlying oceans. Circulating sea water through porous volcanic rocks not only cools the lithosphere but also contribute to the sea water chemistry, and formation of important mineral deposits of Co, Ni, Lanthanides and PGEs. Continental weathering also contributes to the seawater composition. The hydrothermal energy and nutrients support complex ecosystems at Mid Oceanic Ridges. Microorganisms in the ecosystem also play important role in the precipitation of minerals. In the year 2024, India having with two ocean probes, applied to International Sea Bed Authority under the UN Convention on the Law of the Sea (UNCLOS) to explore deep sea around Carlsberg Ridge in the north western limb of the Indian Ocean Ridge system, and Afanasy Nikitin Seamount in the Central Indian basin. These missions can yield minerals and metals, associated with crusts and nodules, important in clean energy transition and other strategic importance. Read the above passage and answer the following questions:

SubQuestion No : 145

Q.145

Carlsberg Ridge represents boundary between _____.

1. Indian and Arabic plates
2. Indian and Eurasian Plates
3. Indian and Somalian Plates
4. Indian and Australian Plates

Options 1.1

2. 2
3. 3
4. 4

Question Type : MCQ**Question ID : 938066969****Option 1 ID : 9380663765****Option 2 ID : 9380663766****Option 3 ID : 9380663767****Option 4 ID : 9380663768****Status : Answered****Chosen Option : 2**

Comprehension:**Read the following passage and answer the question:**

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

SubQuestion No : 146

Q.146

What is the estimated prevalence for breast cancer in the community?

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

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066974**

Option 1 ID : **9380663781**

Option 2 ID : **9380663782**

Option 3 ID : **9380663783**

Option 4 ID : **9380663784**

Status : **Answered**

Chosen Option : **4**

Comprehension:**Read the following passage and answer the question:**

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

SubQuestion No : 147

Q.147 In the same community (rural area) if the prevalence of breast cancer remains the same and there is almost negligible migration, what will be the expected number of breast cancer if we assume arithmetic growth model in one year duration?

1. 262.0
2. 262.2
3. 262.3
4. 262.5

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066978**

Option 1 ID : **9380663797**

Option 2 ID : **9380663798**

Option 3 ID : **9380663799**

Option 4 ID : **9380663800**

Status : **Answered**

Chosen Option : **2**

Comprehension:**Read the following passage and answer the question:**

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

SubQuestion No : 148

Q.148 Which test of significance should be performed to test the association between status of dietary habits and DDT levels among 150 females whose blood sample were taken?

1. Mann-Whitney U test
2. One sample t test
3. Two independent sample t test
4. One way ANOVA

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066976**

Option 1 ID : **9380663789**

Option 2 ID : **9380663790**

Option 3 ID : **9380663791**

Option 4 ID : **9380663792**

Status : **Answered**

Chosen Option : **4**

Comprehension:**Read the following passage and answer the question:**

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

SubQuestion No : 149

Q.149 Approximately for how many females, the value of DDT will be within limits of 2.5 to 3.5 ng/ml?

1. 50
2. 51
3. 52
4. 53

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066975**

Option 1 ID : **9380663785**

Option 2 ID : **9380663786**

Option 3 ID : **9380663787**

Option 4 ID : **9380663788**

Status : **Answered**

Chosen Option : **2**

Comprehension:**Read the following passage and answer the question:**

A group of environmental toxicologists selected an endemic area in rural setting for screening females for breast cancer, based on the previous literature documentation regarding exposure to the organochlorine compound (DDT). A total of 5000 females were screened in this activity and clinicians in the group of environmental toxicologists confirmed 250 females as positive for breast cancer. The blood samples of 150 females were also taken to quantify the value of DDT. The mean (SD) for DDT was estimated to be normally distributed as 2.5 (1.0) ng/ml. The epidemiologist in the team also collected detailed information regarding age of females (ranged: 15-49 years), family history (fh), type of dietary habits (vegetarian/ non-vegetarian), and menopause status (yes/ no).

Read the above passage and answer the following questions:

SubQuestion No : 150

Q.150 The epidemiologist wish to develop an epidemiological model for development of breast cancer (n=150) based upon information on age, family history, and dietary habits of the subjects. Which one of the following epidemiological models will be the best choice?

1. Binary Logistic Model
2. Simple Linear Model
3. Multiple Regression Model
4. General Linear Model

Options 1.1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **938066977**

Option 1 ID : **9380663793**

Option 2 ID : **9380663794**

Option 3 ID : **9380663795**

Option 4 ID : **9380663796**

Status : **Answered**

Chosen Option : **3**