

UGC NET 2019

Test Time	9:30 AM - 12:30 PM
Test Date	25/06/2019
Subject	89 Environmental Sciences

Section : PART I General Aptitude

Q.1 Which of the following statements is true in the case of a test prepared by you as a teacher?

- (1) If a test is reliable, it is objective
- (2) If a test is valid, it is reliable also
- (3) If a test is reliable, it is valid
- (4) If a test is valid and reliable, it is usable

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : **MCQ**
Question ID : **64635028925**
Option 1 ID : **646350113547**
Option 2 ID : **646350113548**
Option 3 ID : **646350113549**
Option 4 ID : **646350113550**
Status : **Answered**
Chosen Option : **3**

Q.2 Quantitative research is also called the

- (1) Ethnographic approach
- (2) Unstructured approach
- (3) Descriptive approach
- (4) Structured approach

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : **MCQ**
Question ID : **64635028931**
Option 1 ID : **646350113571**
Option 2 ID : **646350113572**
Option 3 ID : **646350113573**
Option 4 ID : **646350113574**
Status : **Answered**
Chosen Option : **4**

Q.3

In the research method, generalisations may be made that will be applicable to other situations of the same type. What is this called?

- | | |
|------------------|-----------------|
| (1) Cohort study | (2) Case study |
| (3) Panel study | (4) Blind study |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028932

Option 1 ID : 646350113575

Option 2 ID : 646350113576

Option 3 ID : 646350113577

Option 4 ID : 646350113578

Status : Answered

Chosen Option : 2

Q.4 The easiest attitudinal scale which is a summated rating scale is the

- | | |
|---------------------|------------------|
| (1) Guttman Scale | (2) Likert scale |
| (3) Thurstone scale | (4) MLA scale |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028930

Option 1 ID : 646350113567

Option 2 ID : 646350113568

Option 3 ID : 646350113569

Option 4 ID : 646350113570

Status : Answered

Chosen Option : 2

Q.5 Which among the following bases can be counted to judge the effectiveness of teaching?

- (a) Marks obtained by students in overall subjects
- (b) Level of realization of instructional objectives
- (c) Time taken by the students to learn.
- (d) Resources used by the teacher in teaching
- (e) Regularity of students in class.

Select your answer from the options given below :

- | | |
|----------------------|----------------------|
| (1) (a), (b) and (c) | (2) (a), (b) and (d) |
| (3) (c), (d) and (e) | (4) (b), (c) and (d) |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028927

Option 1 ID : 646350113555

Option 2 ID : 646350113556

Option 3 ID : 646350113557

Option 4 ID : 646350113558
Status : Answered
Chosen Option : 3

Q.6 Which of the following statements best explains the concept of team teaching?

- (1) More than two teachers teach
- (2) More than two teachers plan and teach together the same class
- (3) More than two teachers plan and teach the same class as per their expertise.
- (4) A team of teachers who are ready and available to teach the students

Options

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

Question Type : MCQ
Question ID : 64635028926
Option 1 ID : 646350113551
Option 2 ID : 646350113552
Option 3 ID : 646350113553
Option 4 ID : 646350113554
Status : Answered
Chosen Option : 4

Q.7 When the researcher does not know the identity of the experimental and placebo groups, the study is termed as

- (1) Blind
- (2) Double - blind
- (3) Panel
- (4) Cohort

Options

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

Question Type : MCQ
Question ID : 64635028928
Option 1 ID : 646350113559
Option 2 ID : 646350113560
Option 3 ID : 646350113561
Option 4 ID : 646350113562
Status : Answered
Chosen Option : 4

Q.8 Research that focuses on social inequality between men and women is called

- (1) Comparative research
- (2) Longitudinal research
- (3) Action research
- (4) Feminist research

Options

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

Question Type : MCQ
Question ID : 64635028929

Option 1 ID : **646350113563**
Option 2 ID : **646350113564**
Option 3 ID : **646350113565**
Option 4 ID : **646350113566**
Status : **Answered**
Chosen Option : **4**

Q.9 As per the cognitive development theory of Jean Piaget, adolescent students are in which stage of development?

- | | |
|-------------------------|--------------------------------|
| (1) Sensory motor stage | (2) Concrete operational stage |
| (3) Operational stage | (4) Formal operational stage |

Options

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

Question Type : **MCQ**
Question ID : **64635028923**
Option 1 ID : **646350113539**
Option 2 ID : **646350113540**
Option 3 ID : **646350113541**
Option 4 ID : **646350113542**
Status : **Answered**
Chosen Option : **3**

Q.10 Below is given a list of teaching methods and approaches. Which among them are individualized approach?

- (a) Demonstration method
- (b) Modular approach based teaching
- (c) Programmed learning
- (d) Personalized teaching
- (e) Collaborative method

Select your answer from the options given below :

- | | |
|----------------------|----------------------|
| (1) (a), (b) and (c) | (2) (b), (c) and (d) |
| (3) (c), (d) and (e) | (4) (a), (d) and (e) |

Options

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

Question Type : **MCQ**
Question ID : **64635028924**
Option 1 ID : **646350113543**
Option 2 ID : **646350113544**
Option 3 ID : **646350113545**
Option 4 ID : **646350113546**
Status : **Answered**
Chosen Option : **4**

Comprehension:

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence- verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly very productive. As the saying goes, 'A wise enemy is better than a foolish friend' ;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with a high intelligence quotient are often dissatisfied people.

SubQuestion No : 11

Q.11

Another word for 'Weightage' is

- (1) Credit
- (3) Weight

- (2) Mass
- (4) Freedom

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028938

Option 1 ID : 646350113595

Option 2 ID : 646350113596

Option 3 ID : 646350113597

Option 4 ID : 646350113598

Status : Answered

Chosen Option : 1

Comprehension:

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence-verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly by very productive. As the saying goes, 'A wise enemy is better than a foolish ' friend ;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with at high intelligence quotient are often dissatisfied people.

SubQuestion No : 12

Q.12 High energy drive, achievements and competitiveness are valued during

- | | |
|---------------|-------------------------------|
| (1) Admission | (2) Recruitment |
| (3) Promotion | (4) Admission and recruitment |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635028936**

Option 1 ID : **646350113587**

Option 2 ID : **646350113588**

Option 3 ID : **646350113589**

Option 4 ID : **646350113590**

Status : **Answered**

Chosen Option : **2**

Comprehension:

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence-verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly by very productive. As the saying goes, 'A wise enemy is better than a foolish ' friend ;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with at high intelligence quotient are often dissatisfied people.

SubQuestion No : 13

Q.13 When a student stands first in the class, the general credit is given to :

- | | |
|---------------|-------------------------|
| (1) Contacts | (2) Intelligence |
| (3) Hard work | (4) Attractive features |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635028934**

Option 1 ID : **646350113579**

Option 2 ID : **646350113580**

Option 3 ID : **646350113581**

Option 4 ID : **646350113582**

Status : **Answered**

Chosen Option : **3**

Comprehension:

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence- verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly very productive. As the saying goes, 'A wise enemy is better than a foolish ' friend ;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with at high intelligence quotient are often dissatisfied people.

SubQuestion No : 14

Q.14 Those who understand a problem in a short span of time will be people with

- | | |
|----------------|-------------|
| (1) High IQ | (2) Low IQ |
| (3) Average IQ | (4) Good IQ |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635028935**

Option 1 ID : **646350113583**

Option 2 ID : **646350113584**

Option 3 ID : **646350113585**

Option 4 ID : **646350113586**

Status : **Answered**

Chosen Option : **1**

Comprehension:

Read the passage carefully and answer question

Intelligence is associated with academic achievement by most people. The various theories of intelligence created by psychologists hold that there are two kinds of academic intelligence- verbal and mathematical or logical. Intelligence is an inherited trait that impacts individual behaviour and performance according to most experts. But, many research studies have revealed that the environment greatly impacts the development of intelligence. Since, one property of intelligence is analytical and reasoning skills, people with high intelligence quotient will understand the problem at hand better than people with a low IQ.

Many organizations consider intelligence as an important criterion while recruiting. For instance in many management schools, a lot of weightage is given to high IQ while admitting students or recruiting faculty members. The qualities of intelligent people are high energy drive, achievement and competitiveness. Very intelligent employees learn job – related skills and other organisational practices quickly and organisations have to spend less time training them. People with high intelligence have good decision making ability due to their good analytical and reasoning skills, with a high achievement drive, they are mostly very productive. As the saying goes, 'A wise enemy is better than a foolish friend' ;

Even with such a high IQ very intelligent people may not always be very happy. The high IQ makes them dysfunctional leading to anxiety and depression. Generally speaking, people with high intelligence quotient are often dissatisfied people.

SubQuestion No : 15

Q.15 Dissatisfaction is often witnessed in people with

- | | |
|------------------------------------|-----------------------------------|
| (1) Creative skills | (2) High expectations |
| (3) Good decision – making ability | (4) High education qualifications |

Options

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

Question Type : MCQ

Question ID : 64635028937

Option 1 ID : 646350113591

Option 2 ID : 646350113592

Option 3 ID : 646350113593

Option 4 ID : 646350113594

Status : Answered

Chosen Option : 2

Q.16 A group of 40 employees of Cadre A has a mean age of 31. A different group of 60 employees of Cadre B has a mean age of 28. What is the mean age of two employees of the two groups together?

- | | |
|----------|----------|
| (1) 29.8 | (2) 29.5 |
| (3) 29.2 | (4) 29 |

Options

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

Question Type : MCQ

Question ID : 64635028946

Option 1 ID : 646350113627

Option 2 ID : 646350113628

Option 3 ID : 646350113629

Option 4 ID : 646350113630

Status : Answered

Q.17

All gentlemen are polite
 No criminals are polite
 No criminals are gentlemen.
 Identify the major term in above syllogism.

- (1) Predicate in the premises
- (2) Subject in the premises
- (3) Subject of the first premise and predicate of the conclusion
- (4) Subject of the second premise and subject of the conclusion

Options 1. 1

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

Question Type : MCQ

Question ID : 64635028949

Option 1 ID : 646350113639

Option 2 ID : 646350113640

Option 3 ID : 646350113641

Option 4 ID : 646350113642

Status : Answered

Chosen Option : 3

Q.18

Since most interactions with other people take place at a highly superficial level, making good _____ becomes difficult.

- (1) Course corrections
- (2) Predictions
- (3) Deeds
- (4) Announcements

Options 1. 1

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

Question Type : MCQ

Question ID : 64635028941

Option 1 ID : 646350113607

Option 2 ID : 646350113608

Option 3 ID : 646350113609

Option 4 ID : 646350113610

Status : Answered

Chosen Option : 2

Q.19

The product of two numbers a and b is twice the sum of the numbers. What is the sum of the reciprocals of a and b ?

- (1) $1/8$
- (2) $1/2$
- (3) 2
- (4) 4

Options 1. 1

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

Question Type : MCQ

Question ID : 64635028945
Option 1 ID : 646350113623
Option 2 ID : 646350113624
Option 3 ID : 646350113625
Option 4 ID : 646350113626
Status : Answered
Chosen Option : 3

Q.20 In both mass communication and classroom communication, filtering of information and contents is referred to as

- | | |
|------------------------|--------------------|
| (1) Rationalisation | (2) Gate keeping |
| (3) Content correction | (4) One – way flow |

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

Question Type : MCQ
Question ID : 64635028942
Option 1 ID : 646350113611
Option 2 ID : 646350113612
Option 3 ID : 646350113613
Option 4 ID : 646350113614
Status : Answered
Chosen Option : 1

Q.21 An aeroplane flies along the four sides of a square field at the speed of 400, 600, 800 and 200 km/hr. Find the average speed of the plane around the field.

- | | |
|---------------|---------------|
| (1) 324 km/hr | (2) 360 km/hr |
| (3) 384 km/hr | (4) 396 km/hr |

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

Question Type : MCQ
Question ID : 64635028947
Option 1 ID : 646350113631
Option 2 ID : 646350113632
Option 3 ID : 646350113633
Option 4 ID : 646350113634
Status : Answered
Chosen Option : 2

Q.22 A retailer marks all his goods at 40% above the cost price and thinking that he will still make 20% profit, offers a discount of 20% on the marked price. What is his actual profit percentage on the sales?

- | | |
|---------|---------|
| (1) 20% | (2) 18% |
| (3) 16% | (4) 12% |

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

Question Type : MCQ
Question ID : 64635028948

Option 1 ID : 646350113635
Option 2 ID : 646350113636
Option 3 ID : 646350113637
Option 4 ID : 646350113638
Status : Answered
Chosen Option : 4

Q.23 Identify the argument under which instantial propositions are inferrable from Universal Proposition.

- | | |
|------------------------|-------------------------|
| (1) Deductive argument | (2) Inductive argument |
| (3) Reductive argument | (4) Analogical argument |

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

Question Type : MCQ
Question ID : 64635028950
Option 1 ID : 646350113643
Option 2 ID : 646350113644
Option 3 ID : 646350113645
Option 4 ID : 646350113646
Status : Answered
Chosen Option : 4

Q.24 The cognitive domain of communication involves matters related to

- | | |
|--------------|---------------|
| (1) Emotions | (2) Knowledge |
| (3) Fantasy | (4) Escapism |

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

Question Type : MCQ
Question ID : 64635028939
Option 1 ID : 646350113599
Option 2 ID : 646350113600
Option 3 ID : 646350113601
Option 4 ID : 646350113602
Status : Answered
Chosen Option : 1

Q.25 If in a certain code, BAT = 23 and CAT = 24, then how you will code BALL?

- | | |
|--------|--------|
| (1) 27 | (2) 28 |
| (3) 32 | (4) 39 |

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

Question Type : MCQ
Question ID : 64635028944

Option 1 ID : 646350113619
Option 2 ID : 646350113620
Option 3 ID : 646350113621
Option 4 ID : 646350113622
Status : Answered
Chosen Option : 1

Q.26 Assertion (A) : No enculturation takes place with resistance
Reason (R) : People have their own values and self – interest that filter communicated messages

Choose the correct answer from the options given below :

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false, but (R) is true

Options 1. 1

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

Question Type : MCQ
Question ID : 64635028943
Option 1 ID : 646350113615
Option 2 ID : 646350113616
Option 3 ID : 646350113617
Option 4 ID : 646350113618
Status : Answered
Chosen Option : 2

Q.27 In a class room, a student to be an effective listener, has to take note of

- (a) The teacher appearance
- (b) The peer group
- (c) The academic content
- (d) Communication distractions

Choose the correct answer from the options given below :

- (1) (a), (b) and (c)
- (2) (b), (c) and (d)
- (3) (a), (d) and (c)
- (4) (c) and (d) only

Options 1. 1

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

Question Type : MCQ
Question ID : 64635028940
Option 1 ID : 646350113603
Option 2 ID : 646350113604
Option 3 ID : 646350113605
Option 4 ID : 646350113606
Status : Answered
Chosen Option : 1

Q.28 Bangalore is bigger than Jhansi, Satpura is bigger than Chittor, Rajgarh is not as big as Jhansi but is bigger than Satpura. Which is the smallest?

- (1) Banaglore
- (2) Jhansi
- (3) Satpura
- (4) Chittor

Options 1. 1

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

Question Type : **MCQ**
Question ID : **64635028951**
Option 1 ID : **646350113647**
Option 2 ID : **646350113648**
Option 3 ID : **646350113649**
Option 4 ID : **646350113650**
Status : **Answered**
Chosen Option : **4**

Q.29 A perception where we do not have the knowledge of an object characterized by any predicate but an apprehension of some unrelated elements is called as?

- | | |
|----------------------------|------------------------------|
| (1) Determinate perception | (2) Indeterminate perception |
| (3) Verbal testimony | (4) Implication |

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : **MCQ**
Question ID : **64635028952**
Option 1 ID : **646350113651**
Option 2 ID : **646350113652**
Option 3 ID : **646350113653**
Option 4 ID : **646350113654**
Status : **Answered**
Chosen Option : **2**

Q.30 Consider the argument provided below :
"Sound is impermanent because it is audible"
Identify the fallacy involved in the above argument on the basis of Indian Logic from the options given below :

- | | |
|--------------------------------|-------------------------------------|
| (1) Fallacy of Trivial reason | (2) Fallacy of irrelevant reason |
| (3) Fallacy of Wrong assertion | (4) Fallacy of contradictory reason |

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : **MCQ**
Question ID : **64635028953**
Option 1 ID : **646350113655**
Option 2 ID : **646350113656**
Option 3 ID : **646350113657**
Option 4 ID : **646350113658**
Status : **Answered**
Chosen Option : **2**

Comprehension:

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

Department	Percentage of Females	Percentage of males	Total No. of students
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

SubQuestion No : 31

Q.31 Which of the departments has maximum number of female students?

- | | |
|-------------|-----------------|
| (1) Physics | (2) Chemistry |
| (3) English | (4) Mathematics |

- Options
- 1
 - 2
 - 3
 - 4

Question Type : MCQ
Question ID : 64635028957
Option 1 ID : 646350113667
Option 2 ID : 646350113668
Option 3 ID : 646350113669
Option 4 ID : 646350113670
Status : Answered
Chosen Option : 1

Comprehension:

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

Department	Percentage of Females	Percentage of males	Total No. of students
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

SubQuestion No : 32

Q.32 The total number of students in the Chemistry department forms approximately what percent of the total number of students in the mathematics department?

- | | |
|----------|----------|
| (1) 90% | (2) 95% |
| (3) 105% | (4) 110% |

- Options
- 1
 - 2
 - 3
 - 4

Question Type : MCQ
Question ID : 64635028958
Option 1 ID : 646350113671
Option 2 ID : 646350113672
Option 3 ID : 646350113673

Comprehension:

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

<i>Department</i>	<i>Percentage of Females</i>	<i>Percentage of males</i>	<i>Total No. of students</i>
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

SubQuestion No : 33

Q.33 Which of the department has minimum number of male students?

- (1) Physics (2) English
(3) Hindi (4) Mathematics

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028959

Option 1 ID : 646350113675

Option 2 ID : 646350113676

Option 3 ID : 646350113677

Option 4 ID : 646350113678

Status : Answered

Chosen Option : 4

Comprehension:

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

<i>Department</i>	<i>Percentage of Females</i>	<i>Percentage of males</i>	<i>Total No. of students</i>
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

SubQuestion No : 34

Q.34 What is the respective ratio of the number of male students in English Department to the number of male students in Mathematics department?

- (1) 9 : 12 (2) 9 : 20
(3) 3 : 5 (4) 45 : 60

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028956

Option 1 ID : 646350113663

Option 2 ID : 646350113664

Option 3 ID : 646350113665

Option 4 ID : 646350113666

Status : Answered

Chosen Option : 2

Comprehension:

Consider the following table that shows the total number of students and percentage of females and males in five different departments.

Answer the questions based on the data contained in the table.

Department	Percentage of Females	Percentage of males	Total No. of students
Physics	45	55	450
Chemistry	35	65	550
English	55	45	300
Hindi	60	40	250
Mathematics	40	60	500

SubQuestion No : 35

Q.35 What is the total number of females in English and Hindi departments together?

- | | |
|---------|---------|
| (1) 315 | (2) 325 |
| (3) 335 | (4) 345 |

Options

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

Question Type : MCQ

Question ID : 64635028955

Option 1 ID : 646350113659

Option 2 ID : 646350113660

Option 3 ID : 646350113661

Option 4 ID : 646350113662

Status : Answered

Chosen Option : 1

Q.36 Name the scheme which aims to create research ambience in the institutes by promoting research in engineering sciences.

- (1) E – Shooth Sindhu
- (2) Entrepreneurship Development Cell
- (3) Research Promotion Schemes (RPS)
- (4) Institution Development Scheme

Options

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

Question Type : MCQ

Question ID : 64635028972

Option 1 ID : 646350113727

Option 2 ID : 646350113728

Option 3 ID : 646350113729
Option 4 ID : 646350113730
Status : Answered
Chosen Option : 1

Q.37 The use of Information Technology (IT) to improve the ability of Government to address the needs of society is known as _____.

- | | |
|--------------------|------------------------|
| (1) E – Business | (2) E - Administration |
| (3) E – Governance | (4) E - Marketing |

Options

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

Question Type : MCQ
Question ID : 64635028964
Option 1 ID : 646350113695
Option 2 ID : 646350113696
Option 3 ID : 646350113697
Option 4 ID : 646350113698
Status : Answered
Chosen Option : 3

Q.38 'Inspire scholarship' is intended by the funding agency _____.

- (1) Indian Council of Social Science and Research (ICSSR)
- (2) University Grants Commission (UGC)
- (3) Department of Science and Technology (DST)
- (4) National Council of Education, Research and Training (NCERT)

Options

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

Question Type : MCQ
Question ID : 64635028973
Option 1 ID : 646350113731
Option 2 ID : 646350113732
Option 3 ID : 646350113733
Option 4 ID : 646350113734
Status : Answered
Chosen Option : 4

Q.39 Which of the following pollutants is included in the Air Quality Index in India?

- | | |
|---------------------|--------------------------|
| (1) Carbon Dioxide | (2) Chlorofluoro carbons |
| (3) Sulphur dioxide | (4) Methane |

Options

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

Question Type : MCQ
Question ID : 64635028965

Option 1 ID : 646350113699
Option 2 ID : 646350113700
Option 3 ID : 646350113701
Option 4 ID : 646350113702
Status : Answered
Chosen Option : 3

Q.40 Which of the following is a biological method of disposal of Municipal Solid Waste?

- | | |
|------------------|-------------------|
| (1) Land filling | (2) Pulverization |
| (3) Composting | (4) Shredding |

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

Question Type : MCQ
Question ID : 64635028968
Option 1 ID : 646350113711
Option 2 ID : 646350113712
Option 3 ID : 646350113713
Option 4 ID : 646350113714
Status : Answered
Chosen Option : 3

Q.41 Joint Photographic Experts Group (JPEG) is used to compress _____.

- | | |
|-----------|-----------|
| (1) Music | (2) Video |
| (3) Image | (4) Frame |

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

Question Type : MCQ
Question ID : 64635028963
Option 1 ID : 646350113691
Option 2 ID : 646350113692
Option 3 ID : 646350113693
Option 4 ID : 646350113694
Status : Answered
Chosen Option : 3

Q.42 Which of the following is used to create web pages?

- | | |
|----------|----------|
| (1) HTTP | (2) URL |
| (3) FTP | (4) HTML |

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

Question Type : MCQ
Question ID : 64635028961

Option 1 ID : 646350113683
Option 2 ID : 646350113684
Option 3 ID : 646350113685
Option 4 ID : 646350113686
Status : Answered
Chosen Option : 1

Q.43 The medium of instruction in the vedic system of education has been,

- | | |
|--------------|----------|
| (1) Sanskrit | (2) Pali |
| (3) Hindi | (4) Urdu |

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

Question Type : MCQ
Question ID : 64635028970
Option 1 ID : 646350113719
Option 2 ID : 646350113720
Option 3 ID : 646350113721
Option 4 ID : 646350113722
Status : Answered
Chosen Option : 1

Q.44 The initiative to establish International Solar Alliance was jointly taken by

- | | |
|----------------------|----------------------|
| (1) USA and India | (2) France and India |
| (3) Sweden and India | (4) China and India |

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

Question Type : MCQ
Question ID : 64635028966
Option 1 ID : 646350113703
Option 2 ID : 646350113704
Option 3 ID : 646350113705
Option 4 ID : 646350113706
Status : Answered
Chosen Option : 2

Q.45 National Curriculum Framework was developed by which of the following?

- | | |
|----------|-----------|
| (1) UGC | (2) NCERT |
| (3) NCTE | (4) CBSE |

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

Question Type : MCQ
Question ID : 64635028974

Option 1 ID : 646350113735
Option 2 ID : 646350113736
Option 3 ID : 646350113737
Option 4 ID : 646350113738
Status : Answered
Chosen Option : 2

Q.46 The main two components of CPU are _____.

- | | |
|--------------------------------|-------------------------------|
| (1) Control unit and ALU | (2) ALU and BUS |
| (3) Control unit and registers | (4) Registers and main memory |

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

Question Type : MCQ
Question ID : 64635028960
Option 1 ID : 646350113679
Option 2 ID : 646350113680
Option 3 ID : 646350113681
Option 4 ID : 646350113682
Status : Answered
Chosen Option : 1

Q.47 The methods of learning in Higher Education in India in the past consisted of

- (1) Memorization, Brain Storming procedure and Seminar
- (2) Memorization, Critical Analysis and Story telling
- (3) Critical Analysis, Assignment Writing and Oral reports
- (4) Story Telling, Brain storming procedure and Seminar

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

Question Type : MCQ
Question ID : 64635028971
Option 1 ID : 646350113723
Option 2 ID : 646350113724
Option 3 ID : 646350113725
Option 4 ID : 646350113726
Status : Answered
Chosen Option : 1

Q.48 Which of the following is / are missions under the national action plan on climate change?

- (a) Sustaining the Himalayan ecosystem
- (b) Sustainable forest management
- (c) Strategic knowledge for climate change

Select the correct answer :

- | | |
|----------------------|----------------------|
| (1) (a) and (b) only | (2) (b) 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 : 64635028967
Option 1 ID : 646350113707
Option 2 ID : 646350113708
Option 3 ID : 646350113709
Option 4 ID : 646350113710
Status : Answered
Chosen Option : 3

Q.49 Which of the following is a search Engine?

- | | |
|-----------------------|--------------|
| (1) Flash | (2) Fire fox |
| (3) Internet explorer | (4) Google |

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : MCQ
Question ID : 64635028962
Option 1 ID : 646350113687
Option 2 ID : 646350113688
Option 3 ID : 646350113689
Option 4 ID : 646350113690
Status : Answered
Chosen Option : 4

Q.50 Blue – baby syndrome can happen due to excess of which component in water?

- | | |
|--------------|----------------|
| (1) Calcium | (2) Magnesium |
| (3) Nitrates | (4) Pesticides |

- Options**
- 1. 1
 - 2. 2
 - 3. 3
 - 4. 4

Question Type : MCQ
Question ID : 64635028969
Option 1 ID : 646350113715
Option 2 ID : 646350113716
Option 3 ID : 646350113717
Option 4 ID : 646350113718
Status : Answered
Chosen Option : 3

Wind rose reveals

- (a) Percentage of times winds persist in a specific direction
- (b) Most probable direction of winds
- (c) Percentage duration for which wind speeds are in a given range
- (d) Wind energy potential

Select the correct answer from the options given below :

- 1. (a) and (b) only
- 2. (b), (c) and (d) only
- 3. (a), (b) and (d) only
- 4. (a), (b) and (c) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029003

Option 1 ID : 646350113851

Option 2 ID : 646350113852

Option 3 ID : 646350113853

Option 4 ID : 646350113854

Status : Answered

Chosen Option : 2

Q.2 An aeroplane causes a sound of level 110 dB on taking off. What is the sound level of 5 such identical aeroplanes taking off simultaneously?

- 1. ~117 dB
- 2. ~115 dB
- 3. ~113 dB
- 4. ~110 dB

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029044

Option 1 ID : 646350114015

Option 2 ID : 646350114016

Option 3 ID : 646350114017

Option 4 ID : 646350114018

Status : Answered

Chosen Option : 2

Q.3

Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : The occurrence of acid rain over the Indian landmass is extremely rare.

Reason (R) : The alkaline dust and ammonia (NH_3) produced from agricultural areas neutralise the acid formation in the atmosphere.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028997

Option 1 ID : 646350113827

Option 2 ID : 646350113828

Option 3 ID : 646350113829

Option 4 ID : 646350113830

Status : Answered

Chosen Option : 2

Q.4 The largest unit, in which gene flow is possible, is

1. Population
2. Genus
3. Species
4. Family

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028995

Option 1 ID : 646350113819

Option 2 ID : 646350113820

Option 3 ID : 646350113821

Option 4 ID : 646350113822

Status : Answered

Chosen Option : 1

Q.5

Moderate disturbance in an ecosystem

1. Increases biodiversity
2. Decreases biodiversity
3. Has no effect on biodiversity
4. Increases carrying capacity

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029020

Option 1 ID : 646350113919

Option 2 ID : 646350113920

Option 3 ID : 646350113921

Option 4 ID : 646350113922

Status : Answered

Chosen Option : 2

Q.6

Which is the first mineral to form in cooling magma?

1. Olivine
2. Quartz
3. Mica
4. Potassium feldspar

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029031

Option 1 ID : 646350113963

Option 2 ID : 646350113964

Option 3 ID : 646350113965

Option 4 ID : 646350113966

Status : Answered

Chosen Option : 2

Q.7

In order of intensity of different components of electromagnetic radiation emitted from sun reaching earth's surface, identify the correct sequence :

1. ultraviolet > visible > infrared
2. ultraviolet < visible < infrared
3. ultraviolet > infrared > visible
4. ultraviolet < infrared < visible

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029017

Option 1 ID : 646350113907

Option 2 ID : 646350113908

Option 3 ID : 646350113909

Option 4 ID : 646350113910

Status : Answered

Chosen Option : 3

Q.8 Given below are two statements, one is labelled as Assertion (A) and the other as Reason (R).

Assertion (A) : Biogas production is reduced in winters.

Reason (R) : Methanogenesis occurs at mesophilic temperatures.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029008

Option 1 ID : 646350113871

Option 2 ID : 646350113872

Option 3 ID : 646350113873

Option 4 ID : 646350113874

Status : Answered

Chosen Option : 4

Q.9

Electrostatic precipitator (ESP) is good for controlling

1. VOCs
2. Greenhouse gases
3. Fine particulate matter
4. Sulphur compounds

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029026

Option 1 ID : 646350113943

Option 2 ID : 646350113944

Option 3 ID : 646350113945

Option 4 ID : 646350113946

Status : Answered

Chosen Option : 3

Q.10 Which of the following modes of energy generation has maximum conversion efficiency?

1. Hydroelectric
2. Thermoelectric
3. Hydrogen fuel cell
4. Geothermal

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028981

Option 1 ID : 646350113763

Option 2 ID : 646350113764

Option 3 ID : 646350113765

Option 4 ID : 646350113766

Status : Answered

Chosen Option : 3

Q.11

Which method is most appropriate for separating tin cans from aluminium cans in municipal solid waste?

1. Shear shredding
2. Manual sorting
3. Pelletizing
4. Magnetic field separation

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

Question Type : MCQ
Question ID : 64635029027
Option 1 ID : 646350113947
Option 2 ID : 646350113948
Option 3 ID : 646350113949
Option 4 ID : 646350113950
Status : Answered
Chosen Option : 3

Q.12 Which of the following is a primary air pollutant?

1. Surface Ozone
2. Sulphate
3. Nitrate
4. Black carbon

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

Question Type : MCQ
Question ID : 64635029033
Option 1 ID : 646350113971
Option 2 ID : 646350113972
Option 3 ID : 646350113973
Option 4 ID : 646350113974
Status : Answered
Chosen Option : 1

Q.13

Which among the following CAN NOT be categorized as VOCs?

1. Polycyclic Aromatic Hydrocarbons
2. Halocarbons
3. Non-methane Hydrocarbons
4. Oxygenates

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029000

Option 1 ID : 646350113839

Option 2 ID : 646350113840

Option 3 ID : 646350113841

Option 4 ID : 646350113842

Status : Answered

Chosen Option : 4

Q.14 Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : The organic matter helps in formation and stabilization of soil texture.

Reason (R) : Humified organic matter has an affinity for water and can absorb and hold water upto several times of its dry weight.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029050

Option 1 ID : 646350114039

Option 2 ID : 646350114040

Option 3 ID : 646350114041

Option 4 ID : 646350114042

Status : Answered

Chosen Option : 1

Q.15

Which toxic metal is present in the colour printing inks of magazine pages?

1. Lead
2. Cadmium
3. Arsenic
4. Mercury

Options

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

Question Type : MCQ

Question ID : 64635029013

Option 1 ID : 646350113891

Option 2 ID : 646350113892

Option 3 ID : 646350113893

Option 4 ID : 646350113894

Status : Answered

Chosen Option : 1

Q.16 What percent of visible radiation accounts for total solar radiation incident on top of atmosphere?

1. 7
2. 41
3. 56
4. 75

Options

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

Question Type : MCQ

Question ID : 64635029010

Option 1 ID : 646350113879

Option 2 ID : 646350113880

Option 3 ID : 646350113881

Option 4 ID : 646350113882

Status : Answered

Chosen Option : 2

Q.17

Ground truth data in remote sensing is collected for :

- (a) Analysis of remote sensing data
- (b) Accuracy assessment
- (c) Calibration of remote sensing sensors

Choose the correct option :

- 1. (a), (b) and (c)
- 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 : **64635029018**
Option 1 ID : **646350113911**
Option 2 ID : **646350113912**
Option 3 ID : **646350113913**
Option 4 ID : **646350113914**
Status : **Answered**
Chosen Option : **1**

Fulvic acid molecules in soil humus are

- (a) Randomly coiled
- (b) More polar
- (c) Highly charged
- (d) Smaller molecules than humic acid molecules

Choose the correct option :

- 1. (a), (b) and (c) only
- 2. (b), (c) and (d) only
- 3. (a), (c) and (d) only
- 4. (b) and (d) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635029002**

Option 1 ID : **646350113847**

Option 2 ID : **646350113848**

Option 3 ID : **646350113849**

Option 4 ID : **646350113850**

Status : **Answered**

Chosen Option : **2**

Fire occurrence in the forests depends on :

- (a) Fuel load
- (b) Vegetation type
- (c) Distance from the habitations

Choose the correct option :

- 1. (a) and (b) only
- 2. (a), (b) and (c)
- 3. (b) and (c) only
- 4. (a) and (c) only

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

Question Type : MCQ
Question ID : 64635029028
Option 1 ID : 646350113951
Option 2 ID : 646350113952
Option 3 ID : 646350113953
Option 4 ID : 646350113954
Status : Answered
Chosen Option : 1

Q.20

Predators and parasites are similar in that, both can be characterised by

- 1. $+/+$ interaction
- 2. $+/-$ interaction
- 3. $-/-$ interaction
- 4. $+/0$ interaction

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

Question Type : MCQ
Question ID : 64635028979
Option 1 ID : 646350113755

Option 2 ID : 646350113756
Option 3 ID : 646350113757
Option 4 ID : 646350113758
Status : Answered
Chosen Option : 1

Q.21 Two important characteristics of any population are

1. Diversity and density
2. Frequency and density
3. Abundance and dispersion
4. Density and dispersion

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

Question Type : MCQ
Question ID : 64635029057
Option 1 ID : 646350114067
Option 2 ID : 646350114068
Option 3 ID : 646350114069
Option 4 ID : 646350114070
Status : Answered
Chosen Option : 2

Q.22 A country has population of 350 million and an annual growth rate of population 2.0% at $t = 0$. There after the population stabilizes at 1.4 billion. How long it will take for the population to reach 0.7 billion?

1. ~41.2 years
2. ~17.9 years
3. ~5 years
4. ~35.0 years

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

Question Type : MCQ
Question ID : 64635029048
Option 1 ID : 646350114031
Option 2 ID : 646350114032
Option 3 ID : 646350114033
Option 4 ID : 646350114034

Status : **Answered**
Chosen Option : 4

Q.23 Consider the following simple regression equation of dependent variable (Y) and explanatory variable (X) :

$$Y = a + bX + \epsilon$$

Given the following data : $S^2 = 250$, residual variance = 5, $b = 0.2$ and $a = 0.5$.

What will be the overall variance Sy^2 ?

1. 15
2. 55
3. 45
4. 10

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635029056**
Option 1 ID : **646350114063**
Option 2 ID : **646350114064**
Option 3 ID : **646350114065**
Option 4 ID : **646350114066**
Status : **Answered**
Chosen Option : 2

Q.24 Which microbial metabolism involves immobilisation of soluble metal species by forming complexing agents like metal sulphides, metal carbonates and metal phosphates?

1. Biosorption
2. Bioaccumulation
3. Solubilization
4. Bioprecipitation

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635029065**
Option 1 ID : **646350114099**
Option 2 ID : **646350114100**
Option 3 ID : **646350114101**
Option 4 ID : **646350114102**
Status : **Answered**
Chosen Option : 2

Q.25

Hardness of minerals depends on

1. Chemical composition and physical makeup
2. Physical makeup and atomic constitution
3. Parent material
4. Chemical composition and atomic constitution

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028992

Option 1 ID : 646350113807

Option 2 ID : 646350113808

Option 3 ID : 646350113809

Option 4 ID : 646350113810

Status : Answered

Chosen Option : 1

Q.26

Major attributes of a restored ecosystem are :

- (a) Representation of all functional groups
- (b) Amelioration of physical environment
- (c) Resilience and integrity
- (d) Absence of potential threats

Choose the correct option :

1. (a) and (b) only
2. (a), (b), (c) and (d)
3. (b), (c) and (d) only
4. (a), (c) and (d) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029007

Option 1 ID : 646350113867
Option 2 ID : 646350113868
Option 3 ID : 646350113869
Option 4 ID : 646350113870
Status : Answered
Chosen Option : 3

Q.27 Match List-I (ISO Standards) with List-II (Environmental Management Aspects) :

List-I (ISO Standards)	List-II (Environmental Management Aspects)
(a) ISO 14010	(i) Environmental auditing
(b) ISO 14020	(ii) Environmental aspect in product standard
(c) ISO 14050	(iii) Environmental labelling standard
(d) ISO 14060	(iv) Environmental terms and definitions

Choose the correct answer from the options given below :

1. (a)–(i); (b)–(ii); (c)–(iv); (d)–(iii)
2. (a)–(iv); (b)–(iii); (c)–(i); (d)–(ii)
3. (a)–(i); (b)–(iii); (c)–(iv); (d)–(ii)
4. (a)–(iv); (b)–(ii); (c)–(iii); (d)–(i)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 64635029030
Option 1 ID : 646350113959
Option 2 ID : 646350113960
Option 3 ID : 646350113961
Option 4 ID : 646350113962
Status : Answered
Chosen Option : 4

Q.28

Match List-I (NGO Movements) with List-II (Years of Struggle) :

List-I (NGO Movements)	List-II (Years of Struggle)
(a) Silent Valley Struggle	(i) 1973
(b) Chipko Movement	(ii) 1978
(c) Appiko Movement	(iii) 1980
(d) Gandhamardan Movement	(iv) 1983

Choose the correct answer from the options given below :

1. (a)–(ii); (b)–(iii); (c)–(iv); (d)–(i)
2. (a)–(iii); (b)–(ii); (c)–(iv); (d)–(i)
3. (a)–(iv); (b)–(i); (c)–(iii); (d)–(ii)
4. (a)–(ii); (b)–(i); (c)–(iv); (d)–(iii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029016

Option 1 ID : 646350113903

Option 2 ID : 646350113904

Option 3 ID : 646350113905

Option 4 ID : 646350113906

Status : Answered

Chosen Option : 3

Q.29

Saturation vapour pressure at a given temperature is 900 mbar while it is 600 mbar at dew point temperature. What will be the relative humidity?

1. 90%
2. 66.7%
3. 60%
4. 76.6%

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029006

Option 1 ID : 646350113863

Option 2 ID : 646350113864

Option 3 ID : 646350113865

Option 4 ID : 646350113866

Status : Answered

Q.30 Simultaneous measurement of humidity Y (%) and temperature X ($^{\circ}\text{C}$) at a given site are given as under :

Y :	30	40	45	60	65
X :	40	35	30	25	20

The correlation coefficient between Y and X is

1. -0.987
2. 0.826
3. 0.621
4. -0.360

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

Question Type : MCQ

Question ID : 64635029054

Option 1 ID : 646350114055

Option 2 ID : 646350114056

Option 3 ID : 646350114057

Option 4 ID : 646350114058

Status : Answered

Chosen Option : 2

Q.31 What is the required solar panel area for photovoltaic cells with efficiency of 20% and incident solar radiation of 400 W/m^2 to run an electric geyser of 2 kW?

1. 2.5 m^2
2. 25 m^2
3. 37.5 m^2
4. 0.25 m^2

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

Question Type : MCQ

Question ID : 64635028983

Option 1 ID : 646350113771

Option 2 ID : 646350113772

Option 3 ID : 646350113773

Option 4 ID : 646350113774

Status : Answered

Chosen Option : 2

Q.32

Which type of earthworms are most suitable for vermicomposting?

1. Anecic
2. Epigeic
3. Endogeic
4. Both endogeic and epigeic

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029034

Option 1 ID : 646350113975

Option 2 ID : 646350113976

Option 3 ID : 646350113977

Option 4 ID : 646350113978

Status : Answered

Chosen Option : 4

Q.33 The first State to be declared as an organic State of the country is

1. Sikkim
2. Uttarakhand
3. Himachal Pradesh
4. Kerala

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029066

Option 1 ID : 646350114103

Option 2 ID : 646350114104

Option 3 ID : 646350114105

Option 4 ID : 646350114106

Status : Answered

Chosen Option : 1

Q.34

In an urban atmosphere the concentration of CH_4 and OH radical is 5×10^{19} molecules m^3 and 1.8×10^{12} molecules m^{-3} respectively. The rate constant for 2nd order reaction between OH and methane is $8.36 \times 10^{-21} \text{ m}^3 \text{ mol}^{-1} \text{ s}^{-1}$. What is the instantaneous rate of oxidation of CH_4 ?

1. $3.26 \times 10^{11} \text{ molecules m}^{-3} \text{ s}^{-1}$
2. $2.52 \times 10^{12} \text{ molecules m}^{-3} \text{ s}^{-1}$
3. $7.52 \times 10^{11} \text{ molecules m}^{-3} \text{ s}^{-1}$
4. $7.52 \times 10^{12} \text{ molecules m}^{-3} \text{ s}^{-1}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029060

Option 1 ID : 646350114079

Option 2 ID : 646350114080

Option 3 ID : 646350114081

Option 4 ID : 646350114082

Status : Answered

Chosen Option : 4

Q.35

Which instrument is used to measure total irradiance?

1. Pyrheliometer
2. Anemometer
3. Pyranometer
4. Hygrometer

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029032

Option 1 ID : 646350113967

Option 2 ID : 646350113968

Option 3 ID : 646350113969

Option 4 ID : 646350113970

Status : Answered

Chosen Option : 1

Q.36

Mycorrhizae enhance plant nutrition mainly by

1. Providing sugar to root cells
2. Absorbing water and minerals
3. Converting atmospheric nitrogen to ammonia
4. Enhancing root growth

Options

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

Question Type : MCQ

Question ID : 64635028996

Option 1 ID : 646350113823

Option 2 ID : 646350113824

Option 3 ID : 646350113825

Option 4 ID : 646350113826

Status : Answered

Chosen Option : 3

Q.37 Which Article of the Indian Constitution was used by Government of India to enact the Environmental Protection Act (EPA), 1986?

1. 48 A
2. 253
3. 251
4. 51 A(g)

Options

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

Question Type : MCQ

Question ID : 64635029071

Option 1 ID : 646350114123

Option 2 ID : 646350114124

Option 3 ID : 646350114125

Option 4 ID : 646350114126

Status : Answered

Chosen Option : 2

Q.38 Maximum concentration of hydroxyl radical in earth's atmosphere is observed at

1. The equator, in middle of troposphere
2. The poles, in middle of troposphere
3. The equatorial surface
4. The Tropic of Cancer

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029074

Option 1 ID : 646350114135

Option 2 ID : 646350114136

Option 3 ID : 646350114137

Option 4 ID : 646350114138

Status : Answered

Chosen Option : 2

Q.39 Match List-I (Ozone Depleting Substances) with List-II (Chemical Formulas) :

List-I (Ozone Depleting Substances)	List-II (Chemical Formulas)
(a) CFC-12	(i) $\text{CF}_2\text{ClCFCl}_2$
(b) CFC-113	(ii) CClF_2CF_3
(c) CFC-114	(iii) CF_2Cl_2
(d) CFC-115	(iv) $\text{CF}_2\text{ClCF}_2\text{Cl}$

Choose the correct answer from the options below.

1. (a)–(iii); (b)–(ii); (c)–(i); (d)–(iv)
2. (a)–(iii); (b)–(i); (c)–(ii); (d)–(iv)
3. (a)–(iii); (b)–(i); (c)–(iv); (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 : 64635029049

Option 1 ID : 646350114035

Option 2 ID : 646350114036

Option 3 ID : 646350114037

Option 4 ID : 646350114038

Status : Answered

Chosen Option : 3

Q.40

Which of the following biomes has the largest area?

1. Grassland
2. Desert
3. Taiga
4. Rain forest

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029029

Option 1 ID : 646350113955

Option 2 ID : 646350113956

Option 3 ID : 646350113957

Option 4 ID : 646350113958

Status : Answered

Chosen Option : 1

Q.41

A thermal power plant emits SO_2 at the rate of $500 \times 10^8 \mu\text{g/s}$. Its stack has an effective height of 200 m where wind speed is 5.0 m/s. If the horizontal and vertical dispersion coefficients are 400 m and 200 m, respectively, the downwind ground level concentration of SO_2 at a distance of 2 km will be

1. $\sim 241.4 \mu\text{g/m}^3$
2. $\sim 206.5 \mu\text{g/m}^3$
3. $\sim 75.8 \mu\text{g/m}^3$
4. $\sim 180.6 \mu\text{g/m}^3$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029045

Option 1 ID : 646350114019

Option 2 ID : 646350114020

Option 3 ID : 646350114021

Option 4 ID : 646350114022

Status : Answered

Chosen Option : 2

Q.42

Which is the correct hierarchical level of organisation in ecology?

1. Organism, population, community, ecosystem, biome, landscape, ecosphere
2. Organism, population, community, ecosystem, landscape, biome, ecosphere
3. Organism, community, population, ecosystem, landscape, biome, ecosphere
4. Organism, population, community, landscape, ecosystem, biome, ecosphere

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635028994**

Option 1 ID : **646350113815**

Option 2 ID : **646350113816**

Option 3 ID : **646350113817**

Option 4 ID : **646350113818**

Status : **Answered**

Chosen Option : **1**

Q.43 Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : The power output from a windmill is maximum for an optimal wind speed.

Reason (R) : The turbulence in the atmosphere influences wind energy production.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635029043**

Option 1 ID : **646350114011**

Option 2 ID : **646350114012**

Option 3 ID : **646350114013**

Option 4 ID : **646350114014**

Status : **Answered**

Chosen Option : **2**

Q.44

In a typical solar pond which region has the salt concentration gradient?

1. Surface convective zone
2. Non-convective zone
3. Lower convective zone
4. Entire solar pond

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029062

Option 1 ID : 646350114087

Option 2 ID : 646350114088

Option 3 ID : 646350114089

Option 4 ID : 646350114090

Status : Answered

Chosen Option : 2

Q.45 Which energy conversion process is involved in syngas production from biomass?

1. Combustion
2. Gasification
3. Pyrolysis
4. Fermentation

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029025

Option 1 ID : 646350113939

Option 2 ID : 646350113940

Option 3 ID : 646350113941

Option 4 ID : 646350113942

Status : Answered

Chosen Option : 2

Q.46

Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : In the Himalayas north-facing slopes have luxuriant growth of forests, whereas shrubby drought-resistant vegetation inhabits the south-facing slopes.

Reason (R) : South-facing slopes in the northern hemisphere receive more sunlight than nearby north-facing slopes and, therefore, are warmer and drier.

Choose the correct answer from the options given below :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options

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

Question Type : MCQ

Question ID : 64635029064

Option 1 ID : 646350114095

Option 2 ID : 646350114096

Option 3 ID : 646350114097

Option 4 ID : 646350114098

Status : Answered

Chosen Option : 4

Q.47 Removal of decomposers from an ecosystem will lead to

1. Increase in number of herbivores
2. Reduction in nutrient cycling
3. Increased number of carnivores
4. Decreased number of carnivores

Options

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

Question Type : MCQ

Question ID : 64635029021

Option 1 ID : 646350113923

Option 2 ID : 646350113924

Option 3 ID : 646350113925

Option 4 ID : 646350113926

Status : Answered

Q.48 A stream of waste water having BOD of 20.0 mg/L discharges water at the rate 1.0 m³/s into river with flow rate 8.0 m³/s and BOD of 5.0 mg/L. Assuming complete and instantaneous mixing, what is the resultant BOD just downstream from the point of discharge?

1. ~12.5 mg/L
2. ~6.7 mg/L
3. ~15.0 mg/L
4. ~1.5 mg/L

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029047

Option 1 ID : 646350114027

Option 2 ID : 646350114028

Option 3 ID : 646350114029

Option 4 ID : 646350114030

Status : Answered

Chosen Option : 1

Q.49 If s^2 is the variance of a sample of size N drawn from a normal population with variance σ^2 , then $\frac{Ns^2}{\sigma^2}$ has which one of the following distributions with $(N-1)$ degrees of freedom?

1. Chi-square
2. Normal
3. Student's t
4. Poisson

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029053

Option 1 ID : 646350114051

Option 2 ID : 646350114052

Option 3 ID : 646350114053

Option 4 ID : 646350114054

Status : Answered

Chosen Option : 4

Q.50

Match List-I (Clay Minerals) with List-II (Cation Exchange Capacity in $\text{cmol}(+) \text{kg}^{-1}$) :

List-I (Clay Minerals)	List-II (Cation Exchange Capacity in $\text{cmol}(+) \text{kg}^{-1}$)
(a) Vermiculite	(i) 5–25
(b) Smectite	(ii) 20–40
(c) Illite	(iii) 100–120
(d) Kaolinite	(iv) 150–160

Choose the correct answer from the options given below :

- (a)–(iv); (b)–(i); (c)–(iii); (d)–(ii)
- (a)–(iii); (b)–(ii); (c)–(iv); (d)–(i)
- (a)–(i); (b)–(ii); (c)–(iii); (d)–(iv)
- (a)–(iv); (b)–(iii); (c)–(ii); (d)–(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029059

Option 1 ID : 646350114075

Option 2 ID : 646350114076

Option 3 ID : 646350114077

Option 4 ID : 646350114078

Status : Answered

Chosen Option : 1

Q.51 In an ideal magnetohydrodynamic (MHD) generator, the velocity of fuel gas is increased by a factor of 1.5 and the magnetic field is increased by a factor of 2. By what factor, the maximum power produced from the MHD generator would increase?

- 3
- 6
- 9
- 4.5

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029046

Option 1 ID : 646350114023

Option 2 ID : 646350114024

Option 3 ID : 646350114025

Option 4 ID : 646350114026

Status : Answered

Chosen Option : 3

Q.52

An ozone analyser shows 100 ppb concentration at 1 atmosphere or atm and 25 °C.
Convert the observed concentration of ozone in $\mu\text{g}/\text{m}^3$:

1. 96.0
2. 196.2
3. 200.0
4. 48.92

Options

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

Question Type : MCQ

Question ID : 64635028985

Option 1 ID : 646350113779

Option 2 ID : 646350113780

Option 3 ID : 646350113781

Option 4 ID : 646350113782

Status : Answered

Chosen Option : 1

Q.53

Computation of radiative forcing due to Greenhouse Gas does NOT involve

1. Concentration of the Greenhouse Gases present in the atmosphere
2. Lapse rate of the atmosphere
3. Wavelength at which the gas molecules absorb
4. Intensity of the absorption per molecule

Options

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

Question Type : MCQ

Question ID : 64635029061

Option 1 ID : 646350114083

Option 2 ID : 646350114084

Option 3 ID : 646350114085

Option 4 ID : 646350114086

Status : Answered

Chosen Option : 2

Q.54

Ozone depleting potential is measured with reference to

1. CFC-11
2. CFC-12
3. HCFC-22
4. CFC-113

Options

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

Question Type : MCQ

Question ID : 64635029011

Option 1 ID : 646350113883

Option 2 ID : 646350113884

Option 3 ID : 646350113885

Option 4 ID : 646350113886

Status : Answered

Chosen Option : 2

Q.55 Match List-I (Gases) with List-II (Measurement Techniques) :

List-I (Gases)	List-II (Measurement Techniques)
(a) Ozone	(i) IR Absorption
(b) NO _x	(ii) Pulsed Fluorescence
(c) SO ₂	(iii) Chemiluminescence
(d) CO	(iv) Ultraviolet Absorption

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)-(iv); (c)-(i); (d)-(iii)
4. (a)-(iv); (b)-(ii); (c)-(iii); (d)-(i)

Options

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

Question Type : MCQ

Question ID : 64635028986

Option 1 ID : 646350113783

Option 2 ID : 646350113784

Option 3 ID : 646350113785

Option 4 ID : 646350113786

Status : Answered

Chosen Option : 4

Q.56

Which forest type has the highest percentage cover in the country?

1. Tropical deciduous
2. Tropical evergreen
3. Temperature deciduous
4. Mangrove

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029005

Option 1 ID : 646350113859

Option 2 ID : 646350113860

Option 3 ID : 646350113861

Option 4 ID : 646350113862

Status : Answered

Chosen Option : 2

Q.57

Arrange the following biomes in the increasing order of primary productivity :

- (a) Savannah
- (b) Boreal forests
- (c) Temperate forests
- (d) Temperate grasslands

Choose the correct option :

1. (a), (c), (b) and (d)
2. (c), (b), (a) and (d)
3. (c), (a), (d) and (b)
4. (b), (c), (d) and (a)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **64635029009**
Option 1 ID : **646350113875**
Option 2 ID : **646350113876**
Option 3 ID : **646350113877**
Option 4 ID : **646350113878**
Status : **Answered**
Chosen Option : **3**

Q.58 Match List-I (Taxa) with List-II (Taxa Property) :

List-I (Taxa)	List-II (Taxa Property)
(a) Mycorrhiza	(i) Stem hypertrophy
(b) Mangroves	(ii) Mutualism
(c) Orchids	(iii) Lenticels
(d) Aquatic trees	(iv) Epiphytes

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)–(iii); (c)–(ii); (d)–(iv)
4. (a)–(iii); (b)–(iv); (c)–(i); (d)–(ii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **64635028993**
Option 1 ID : **646350113811**
Option 2 ID : **646350113812**
Option 3 ID : **646350113813**
Option 4 ID : **646350113814**
Status : **Answered**
Chosen Option : **1**

Q.59

Which among the following substances is responsible for global cooling instead of global warming?

1. Black carbon
2. Nitrous oxide
3. Sulphate aerosols
4. HCFC

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029067

Option 1 ID : 646350114107

Option 2 ID : 646350114108

Option 3 ID : 646350114109

Option 4 ID : 646350114110

Status : Answered

Chosen Option : 4

Q.60 In a population, where the allele frequency shifts by a random chance, the mechanism of evolution at work is

1. Co-evolution
2. Mutation
3. Natural selection
4. Genetic drift

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029073

Option 1 ID : 646350114131

Option 2 ID : 646350114132

Option 3 ID : 646350114133

Option 4 ID : 646350114134

Status : Answered

Chosen Option : 1

Q.61

Major environmental impacts of the Tehri dam in the Central Himalaya are :

- (a) Submergence of fertile agricultural lands
- (b) Reservoir-induced seismicity
- (c) Increased incidences of landslides in the reservoir rim
- (d) Loss of biodiversity

Choose the correct option :

- 1. (a) and (b) only
- 2. (a) and (c) only
- 3. (a) and (d) only
- 4. (a), (b), (c) and (d)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029068

Option 1 ID : 646350114111

Option 2 ID : 646350114112

Option 3 ID : 646350114113

Option 4 ID : 646350114114

Status : Answered

Chosen Option : 3

Q.62 Greenhouse gas CO₂ has very strong absorption band in the wavelength region

- 1. 4–10 μm
- 2. >13.0 μm
- 3. 2–3.5 μm
- 4. 0.7–2 μm

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029015

Option 1 ID : 646350113899

Option 2 ID : 646350113900

Option 3 ID : 646350113901

Option 4 ID : 646350113902

Status : Answered

Chosen Option : 1

Q.63

Given below are two statements, one labelled as Assertion (A) and the other as Reason (R).

Assertion (A) : Sounds with a frequency < 100 Hz (base notes) need to be of a higher energy before damage to ear occurs.

Reason (R) : Human ear has variable frequency response.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options

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

Question Type : MCQ

Question ID : 64635028990

Option 1 ID : 646350113799

Option 2 ID : 646350113800

Option 3 ID : 646350113801

Option 4 ID : 646350113802

Status : Answered

Chosen Option : 3

Q.64

For a $H^2 + H^3$ fusion reaction if the desired confinement for the ionized fuel is 2 seconds, what must be the minimum concentration of ions per cubic meter for net gain of energy?

1. 0.25×10^{19}
2. 2.5×10^{19}
3. 5×10^{19}
4. 2×10^{19}

Options

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

Question Type : MCQ

Question ID : 64635029038

Option 1 ID : 646350113991

Option 2 ID : 646350113992

Option 3 ID : 646350113993

Option 4 ID : 646350113994

Status : Answered

Chosen Option : 2

Q.65

Sustainable development presupposes :

- (a) Maintenance of ecosystem integrity
- (b) Improvement in economic and social conditions of people
- (c) Perpetual availability of ecosystem services

Choose the correct option :

- 1. (a), (b) and (c)
- 2. (a) and (b) only
- 3. (a) and (c) only
- 4. (b) and (c) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029069

Option 1 ID : 646350114115

Option 2 ID : 646350114116

Option 3 ID : 646350114117

Option 4 ID : 646350114118

Status : Answered

Chosen Option : 1

Q.66 In a breeder reactor

- 1. Neutrons first convert a fertile material into fissile material and then sustain the fission reaction
- 2. Neutrons first start the fission reaction and fissile material is a by-product
- 3. Fissile material produces fertile material
- 4. Ratio of amount of fissile material produced to fissile material consumed should be less than one

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029072

Option 1 ID : 646350114127

Option 2 ID : 646350114128

Option 3 ID : 646350114129

Option 4 ID : 646350114130

Status : Answered

Chosen Option : 2

Q.67

Spring tides occur

1. When sun and moon are at right angle with respect to earth
2. In spring season
3. During half-moons
4. When sun, moon and earth are aligned linearly

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028982

Option 1 ID : 646350113767

Option 2 ID : 646350113768

Option 3 ID : 646350113769

Option 4 ID : 646350113770

Status : Answered

Chosen Option : 1

Q.68

Given below are two statements, one is labelled as Assertion (A) and the other as Reason (R).

Assertion (A) : Refuse derived fuel from municipal solid waste has higher energy content than raw municipal solid waste.

Reason (R) : Combustible organic material gets concentrated in fuel pellets produced from municipal solid waste.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028987

Option 1 ID : 646350113787

Option 2 ID : 646350113788

Option 3 ID : 646350113789

Option 4 ID : 646350113790

Status : Answered

Chosen Option : 2

Q.69

Given below are two statements. One labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : Strategic Environmental Assessment (SEA) is a more advanced tool in environmental management.

Reason (R) : SEA is applicable at the level of policy, planning and programmes.

Choose the correct answer from the options given below :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028975

Option 1 ID : 646350113739

Option 2 ID : 646350113740

Option 3 ID : 646350113741

Option 4 ID : 646350113742

Status : Answered

Chosen Option : 1

Q.70 Spectral response pattern of leaves in healthy vegetation in SWIR region of EMR is primarily a function of

1. Chlorophyll content
2. Leaf parenchyma
3. Water content of the leaf
4. Presence of waxy layer on epidermis

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029004

Option 1 ID : 646350113855

Option 2 ID : 646350113856

Option 3 ID : 646350113857

Option 4 ID : 646350113858

Status : Answered

Chosen Option : 3

Q.71

Match List-I (Soil Type) with List-II (Degree of Compressibility) :

List-I (Soil Type)	List-II (Degree of Compressibility)
(a) Softy Clay	(i) Low
(b) Clay	(ii) High
(c) Silt	(iii) Medium
(d) Sandy Clay	(iv) Very High

Choose the correct answer from the options given below.

1. (a)–(ii); (b)–(i); (c)–(iii); (d)–(iv)
2. (a)–(iv); (b)–(iii); (c)–(i); (d)–(ii)
3. (a)–(iii); (b)–(ii); (c)–(iv); (d)–(i)
4. (a)–(iv); (b)–(ii); (c)–(iii); (d)–(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029051

Option 1 ID : 646350114043

Option 2 ID : 646350114044

Option 3 ID : 646350114045

Option 4 ID : 646350114046

Status : Answered

Chosen Option : 2

Q.72 Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : Carbon dioxide content in soil air is more than atmospheric air.

Reason (R) : Carbon dioxide released from automobile exhaust and industries gets sequestered in the soil.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

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

Question Type : MCQ
Question ID : 64635029001
Option 1 ID : 646350113843
Option 2 ID : 646350113844
Option 3 ID : 646350113845
Option 4 ID : 646350113846
Status : Answered
Chosen Option : 4

Q.73 Landslide incidences in the Himalayas have increased due to :

- (a) Increased rainfall
- (b) Deforestation
- (c) Construction of new roads

Choose the correct option :

- 1. (a) and (b) only
- 2. (b) and (c) only
- 3. (c) only
- 4. (b) only

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

Question Type : MCQ
Question ID : 64635028991
Option 1 ID : 646350113803
Option 2 ID : 646350113804
Option 3 ID : 646350113805
Option 4 ID : 646350113806
Status : Answered
Chosen Option : 2

Q.74 For a negatively skewed distribution, which is the correct relation?

- 1. Arithmetic mean < Median < Mode
- 2. Arithmetic mean < Mode < Median
- 3. Arithmetic mean > Mode > Median
- 4. Median = Mode > Arithmetic mean

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

Question Type : MCQ
Question ID : 64635029070
Option 1 ID : 646350114119
Option 2 ID : 646350114120
Option 3 ID : 646350114121
Option 4 ID : 646350114122
Status : Answered
Chosen Option : 1

Q.75 Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : Hydroxides of Aluminium (III) or Iron (III) are quite effective in removing colloidal clay particles from turbid water.

Reason (R) : Hydroxides from positively charged flocs attract and carry down negatively charged colloidal clay particles.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

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

Question Type : MCQ
Question ID : 64635029024
Option 1 ID : 646350113935
Option 2 ID : 646350113936
Option 3 ID : 646350113937
Option 4 ID : 646350113938
Status : Answered
Chosen Option : 1

Q.76 Cartagena Protocol deals with

1. Waste management
2. Protection of plant variety
3. Natural resource management
4. Biosafety

- Options 1. 1

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

Question Type : MCQ
Question ID : 64635029036
Option 1 ID : 646350113983
Option 2 ID : 646350113984
Option 3 ID : 646350113985
Option 4 ID : 646350113986
Status : Answered
Chosen Option : 4

Q.77 Which of the following parameters provides information on ignition quality of diesel?

- 1. Octane number
- 2. Cetane number
- 3. Iodine value
- 4. Acid value

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

Question Type : MCQ
Question ID : 64635029023
Option 1 ID : 646350113931
Option 2 ID : 646350113932
Option 3 ID : 646350113933
Option 4 ID : 646350113934
Status : Answered
Chosen Option : 1

Q.78 A lake has 2.5 mgL^{-1} of dissolved organic carbon. The dissolved organic matter concentration in the lake is approximately

- 1. 6.25 mgL^{-1}
- 2. 4.25 mgL^{-1}
- 3. 3.25 mgL^{-1}
- 4. 2.75 mgL^{-1}

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

Question Type : MCQ
Question ID : 64635029019
Option 1 ID : 646350113915
Option 2 ID : 646350113916
Option 3 ID : 646350113917
Option 4 ID : 646350113918
Status : Answered
Chosen Option : 4

Q.79 Remote sensing data from which of the following remote sensing satellites is most suitable for urban ecological studies?

1. RISAT-2
2. CARTOSAT-2
3. LANDSAT-8
4. RESOURCESAT-2 WiFS

Options

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

Question Type : **MCQ**

Question ID : **64635029035**

Option 1 ID : **646350113979**

Option 2 ID : **646350113980**

Option 3 ID : **646350113981**

Option 4 ID : **646350113982**

Status : **Answered**

Chosen Option : **3**

Q.80 If x and y are two variables with independent frequency distributions with means μ_x and μ_y and variances σ_x^2 and σ_y^2 , then the population variance of their difference σ_{x-y}^2 is

1. $\sigma_x^2 + \sigma_y^2$
2. $\sigma_x^2 - \sigma_y^2$
3. $\mu_x \sigma_x^2 + \mu_y \sigma_y^2$
4. $\mu_x \sigma_x^2 - \mu_y \sigma_y^2$

Options

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

Question Type : **MCQ**

Question ID : **64635028989**

Option 1 ID : **646350113795**

Option 2 ID : **646350113796**

Option 3 ID : **646350113797**

Option 4 ID : **646350113798**

Status : **Answered**

Chosen Option : **2**

Q.81

Which is an exotic epigeic earthworm used widely for vermicomposting in India?

1. *Perionyx excavatus*
2. *Eudrilus eugeniae*
3. *Drawida willsi*
4. *Lampito mauritii*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029014

Option 1 ID : 646350113895

Option 2 ID : 646350113896

Option 3 ID : 646350113897

Option 4 ID : 646350113898

Status : Answered

Chosen Option : 2

Q.82 What type of rock will be formed when the lava cools and crystallizes?

1. Intrusive igneous
2. Extrusive igneous
3. Metamorphic
4. Sedimentary

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029022

Option 1 ID : 646350113927

Option 2 ID : 646350113928

Option 3 ID : 646350113929

Option 4 ID : 646350113930

Status : Answered

Chosen Option : 4

Q.83 A container has 3 white balls and 2 black balls identical in size. Two balls are drawn randomly without replacement. The probability that the two balls are of different colours is

1. $\frac{2}{5}$
2. $\frac{3}{5}$
3. $\frac{3}{10}$
4. $\frac{2}{10}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029052

Option 1 ID : 646350114047

Option 2 ID : 646350114048

Option 3 ID : 646350114049

Option 4 ID : 646350114050

Status : Answered

Chosen Option : 4

Q.84 Municipal Solid Waste (Management and Handling) Rules, 2000 were replaced by

1. Solid Waste (Management and Handling) Rules, 2016
2. Solid Waste Management Rules, 2016
3. Municipal Solid Waste (Management and Handling) Rules, 2016
4. Solid Waste Management (Handling) Rules, 2018

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029040

Option 1 ID : 646350113999

Option 2 ID : 646350114000

Option 3 ID : 646350114001

Option 4 ID : 646350114002

Status : Answered

Chosen Option : 3

Q.85 UNEP awarded 'Champion of Earth' for the year 2018 for environmental contribution towards

- (a) Air pollution abatement
- (b) Beating plastic pollution
- (c) Establishing International Solar Alliance
- (d) Swachh Bharat Abhiyan

Choose the correct answer from the options given below :

1. (a) and (d) only
2. (b) and (d) only
3. (a) and (b) only
4. (b) and (c) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635029042
Option 1 ID : 646350114007
Option 2 ID : 646350114008
Option 3 ID : 646350114009
Option 4 ID : 646350114010
Status : Answered
Chosen Option : 2

Q.86 Match List-I (Property) with List-II (Ecological Level) :

List-I (Property)	List-II (Ecological Level)
(a) Fragmentation	(i) Community
(b) Assembly	(ii) Ecosystem
(c) Integrity	(iii) Population
(d) Dispersion	(iv) Landscape

Choose the correct answer from the options given below :

1. (a)–(ii); (b)–(iii); (c)–(iv); (d)–(i)
2. (a)–(iii); (b)–(i); (c)–(ii); (d)–(iv)
3. (a)–(iv); (b)–(i); (c)–(ii); (d)–(iii)
4. (a)–(i); (b)–(iii); (c)–(ii); (d)–(iv)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635029058
Option 1 ID : 646350114071
Option 2 ID : 646350114072
Option 3 ID : 646350114073
Option 4 ID : 646350114074
Status : Answered
Chosen Option : 3

Q.87 Atmospheric Scale Height (H) is the height over which pressure decreases by a factor of

1. e
2. 10
3. π
4. 2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028976

Option 1 ID : 646350113743

Option 2 ID : 646350113744

Option 3 ID : 646350113745

Option 4 ID : 646350113746

Status : Answered

Chosen Option : 3

Q.88 Consider a normal distribution $f(x)$ of variable x . What percentage of variable values deviate from the mean by more than $2\sigma_x$?

1. $\sim 0.26\%$

2. $\sim 2.64\%$

3. $\sim 31.74\%$

4. $\sim 4.56\%$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028988

Option 1 ID : 646350113791

Option 2 ID : 646350113792

Option 3 ID : 646350113793

Option 4 ID : 646350113794

Status : Answered

Chosen Option : 1

Q.89 In the model of r^- and k^- selection, rate of increase of two species are portrayed as function of

(a) Population density

(b) Resource density

(c) Habitat

(d) Size

Choose the correct answer from the options given below :

1. (a) and (c)

2. (a) and (b)

3. (b) and (d)

4. (c) and (a)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029063

Option 1 ID : 646350114091

Option 2 ID : 646350114092

Option 3 ID : 646350114093

Option 4 ID : 646350114094

Status : Answered

Chosen Option : 2

Q.90 A windmill has 10-m diameter and efficiency of 40%. Wind velocity at normal temperature and pressure is 10 m/s and the density of air is 1.29 kg/m^3 . The expected power output from the windmill is

1. 20.0 kW

2. 20.27 kW

3. 10.27 kW

4. 10.0 kW

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028984

Option 1 ID : 646350113775

Option 2 ID : 646350113776

Option 3 ID : 646350113777

Option 4 ID : 646350113778

Status : Answered

Chosen Option : 2

Q.91 According to National Ambient Air Quality Standards (NAAQS) annual average concentration ($\mu\text{g/m}^3$) for SO_2 and NO_2 in ecologically sensitive areas are

1. 20 and 60 respectively

2. 80 and 47 respectively

3. 50 and 20 respectively

4. 20 and 30 respectively

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029012

Option 1 ID : 646350113887

Option 2 ID : 646350113888

Option 3 ID : 646350113889

Option 4 ID : 646350113890

Status : Answered

Chosen Option : 1

Q.92

A 100 mL sample of paper industry effluent is digested in acidified dichromate solution and by back titration it is found that 5×10^{-4} mol of dichromate has been consumed in chemical oxidation. What is COD ($\text{mgO}_2\text{L}^{-1}$) of the sample?

1. 120
2. 620
3. 240
4. 310

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028977

Option 1 ID : 646350113747

Option 2 ID : 646350113748

Option 3 ID : 646350113749

Option 4 ID : 646350113750

Status : Answered

Chosen Option : 3

Q.93

Acid mine drainage from underground mines occurs as

1. Non-point discharge
2. Point discharge
3. Spoil tip drainage
4. Slurry lagoon drainage

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028978

Option 1 ID : 646350113751

Option 2 ID : 646350113752

Option 3 ID : 646350113753

Option 4 ID : 646350113754

Status : Answered

Chosen Option : 4

Q.94

Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

Assertion (A) : If BOD level of water in a reservoir is less than 5 mgL^{-1} , it is highly polluted.

Reason (R) : High BOD means high microbial activity.

Choose the correct answer from the options given below.

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options

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

Question Type : MCQ

Question ID : 64635028999

Option 1 ID : 646350113835

Option 2 ID : 646350113836

Option 3 ID : 646350113837

Option 4 ID : 646350113838

Status : Answered

Chosen Option : 4

Q.95 Match List-I (Environmental Pollutant) with List-II (Instruments Used for Analysis) :

List-I (Environmental Pollutant)	List-II (Instruments Used for Analysis)
(a) PAHs	(i) AAS
(b) Heavy metals	(ii) UV-Vis spectrophotometer
(c) Sulphate ions	(iii) Electrophoresis
(d) Nucleotides	(iv) HPLC

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)–(i); (b)–(ii); (c)–(iv); (d)–(iii)
4. (a)–(iv); (b)–(i); (c)–(ii); (d)–(iii)

Options

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

Question Type : MCQ

Question ID : 64635028998

Option 1 ID : 646350113831

Option 2 ID : 646350113832

Option 3 ID : 646350113833

Option 4 ID : 646350113834

Status : Answered

Chosen Option : 3

Q.96 Which one among the following do all the terrestrial biomes have in common?

1. Annual average rainfall in excess of 25 cm
2. Clear boundaries between adjacent biomes
3. Vegetation demonstrating adjacent stratification
4. Biodiversity pattern that is directly proportional to latitude

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635028980

Option 1 ID : 646350113759

Option 2 ID : 646350113760

Option 3 ID : 646350113761

Option 4 ID : 646350113762

Status : Answered

Chosen Option : 3

Q.97 The marks of students in a certain course averaged 75 over a period of years. A class of 50 students has a mean marks 70 with a standard deviation of 10. To test whether this lower mean can be attributed to ordinary sampling variation, t -statistic is required. The value of t is

1. -3.5
2. -0.5
3. -2.5
4. $+1.5$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635029055

Option 1 ID : 646350114059

Option 2 ID : 646350114060

Option 3 ID : 646350114061

Option 4 ID : 646350114062

Status : Answered

Chosen Option : 1

Q.98

As per the amended rules for the implementation of Forest Rights Act of 2006, the transit passes for the transport of minor forest produce are issued by

1. Gram Sabha
2. Forest Department
3. Biodiversity Monitoring Committee
4. District Level Committee

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029039

Option 1 ID : 646350113995

Option 2 ID : 646350113996

Option 3 ID : 646350113997

Option 4 ID : 646350113998

Status : Answered

Chosen Option : 2

Q.99 As per Occupational Safety and Health Administration, hazard communication pictogram of flame over circle represents the hazardous waste, to be an

1. oxidizer
2. acutely toxic
3. explosive
4. irritant

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635029041

Option 1 ID : 646350114003

Option 2 ID : 646350114004

Option 3 ID : 646350114005

Option 4 ID : 646350114006

Status : Answered

Chosen Option : 2

Q.100 First State to make rainwater harvesting compulsory in India is

1. Haryana
2. Tamilnadu
3. Gujarat
4. Madhya Pradesh

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635029037**

Option 1 ID : **646350113987**

Option 2 ID : **646350113988**

Option 3 ID : **646350113989**

Option 4 ID : **646350113990**

Status : **Answered**

Chosen Option : **2**



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Candidate Details

Challenge/s regarding Answer Key

Remark	QuestionID	Correct Option(s)	ID Options claimed			
	64635028923	646350113542	☐ 646350113539	☐ 646350113540	☐ 646350113541	☐ 646350113542
	64635028924	646350113544	☐ 646350113543	☐ 646350113544	☐ 646350113545	☐ 646350113546
	64635028925	646350113548	☐ 646350113547	☐ 646350113548	☐ 646350113549	☐ 646350113550
	64635028926	646350113553	☐ 646350113551	☐ 646350113552	☐ 646350113553	☐ 646350113554
	64635028927	646350113558	☐ 646350113555	☐ 646350113556	☐ 646350113557	☐ 646350113558
	64635028928	646350113559	☐ 646350113559	☐ 646350113560	☐ 646350113561	☐ 646350113562
	64635028929	646350113566	☐ 646350113563	☐ 646350113564	☐ 646350113565	☐ 646350113566
	64635028930	646350113568	☐ 646350113567	☐ 646350113568	☐ 646350113569	☐ 646350113570
	64635028931	646350113574	☐ 646350113571	☐ 646350113572	☐ 646350113573	☐ 646350113574
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	64635028936	646350113590	☐ 646350113587	☐ 646350113588	☐ 646350113589	☐ 646350113590
	64635028937	646350113593	☐ 646350113591	☐ 646350113592	☐ 646350113593	☐ 646350113594
	64635028938	646350113595	☐ 646350113595	☐ 646350113596	☐ 646350113597	☐ 646350113598
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	64635028940	646350113606	☐ 646350113603	☐ 646350113604	☐ 646350113605	☐ 646350113606

	64635028941	646350113608	☐ 646350113607	☐ 646350113608	☐ 646350113609	☐ 646350113610
	64635028942	646350113612	☐ 646350113611	☐ 646350113612	☐ 646350113613	☐ 646350113614
	64635028943	646350113618	☐ 646350113615	☐ 646350113616	☐ 646350113617	☐ 646350113618
	64635028944	646350113619	☐ 646350113619	☐ 646350113620	☐ 646350113621	☐ 646350113622
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