

# National Testing Agency

<b>Question Paper Name :</b>	Applied Microbiology Eng 10th June 2023 Shift 2
<b>Subject Name :</b>	Applied Microbiology Eng
<b>Creation Date :</b>	2023-06-10 20:47:22
<b>Duration :</b>	120
<b>Total Marks :</b>	400
<b>Display Marks:</b>	Yes

## Applied Microbiology

<b>Group Number :</b>	1
<b>Group Id :</b>	920906111
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	400
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## Part A

<b>Section Id :</b>	920906221
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	21
<b>Number of Questions to be attempted :</b>	21
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	920906362
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Id : 92090611139 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes  
Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response**

**Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (1 to 5)**

**Question Label : Comprehension**

Read the following passage and answer the next five questions by choosing the correct option:

Mara, a 24-year-old university student, seeks help for anxiety. She describes feeling paralyzed when thinking about climate change and the future; Leon, 51 and a father of three, requests treatment for panic attacks. They started last year after he and his family evacuated their home again due to wildfires; Isabel, a 16-year-old climate activist, wants support due to ruminating about the climate crisis to the extent that she can't focus on schoolwork.

The opening vignettes demonstrate that the climate change crisis is taking a toll on people's mental health. Uncertainty, unpredictability, and uncontrollability are three fundamental characteristics of climate change. Recent reviews have shown that the negative impacts of climate change are complex, manifest cognitively, emotionally, and physically and affect behaviours, relationships, and overall well-being. One such manifestation is anxiety related to the ongoing anthropogenic climate change or ecological doom, referred to as eco-anxiety.

The condition overlaps with other mental health disorders in the form of negative, and automatic reactions to a felt threat. However, most empirical studies on eco-anxiety to date surveyed the low-risk groups with smaller and unrepresentative samples. Rigorous research is needed to more completely understand it, clarify its distinct characteristics and contextual factors, and articulate its relationship with other mental health conditions.

Experiences of eco-anxiety often include dystopian thoughts and apocalyptic perceptions about the future, negative and sometimes intense emotions such as fear, anger, guilt, grief, and despair, as well as behavioural manifestations such as insomnia and panic attacks. Causes and triggers of eco-anxiety vary from direct exposure to traumatic extreme weather events like floods, hurricanes, and wildfires to maladaptation to long-term environmental changes like land loss, water scarcity, and pollution. It can also manifest in individuals without direct experience of climate change, simply from the awareness of the potential existential threat it presents.

Health professionals are improving ways to communicate climate concerns. Their voices are imperative for climate change communication and transformation. However, the urgency and complexity of ecological and climate crisis demand an interdisciplinary approach. Other disciplines can help advance these efforts by providing opportunities for innovative thinking and practice, such as with a sociological perspective regarding structures and connections in society; a political scientific approach to tension, conflict, and social movement; and communication strategies for patient-provider interaction, social support, community outreach, and public engagement.

Media coverage of ecological crisis can evoke eco-anxiety. Current messages about climate change are overwhelmingly negative, both linguistically and visually, contributing to a sense of doom and gloom. Hope is central to humanity's survival and flourishing. Yet some caution that hope alone is not a panacea.

**Sub questions**

**Question Number : 1 Question Id : 92090611140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Based on the information in the passage, it can be inferred that all of the following statements are true EXCEPT:

- (A) An interdisciplinary approach is required to facilitate communication regarding climate change crisis.
- (B) Linguistic and visual media provokes eco-anxiety.
- (C) Eco-anxiety, its characteristics and context have been fully understood through extensive research.
- (D) The negative impacts of climate change affect behaviour, relationships and overall well-being.

Choose the correct answer from the options given below :

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

**Options :**

- 92090644001. 1
- 92090644002. 2
- 92090644003. 3
- 92090644004. 4

**Question Number : 2 Question Id : 92090611141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match the words in List I with their meanings in List II :

List I	List II
(A) Apocalyptic	(I) Related to human existence
(B) Dystopian	(II) Short piece of writing or acting about a person, place or event
(C) Existential	(III) Propheying a disaster or total destruction
(D) Vignettes	(IV) Relationship to an imagined society in which there is suffering and injustice

Choose the correct answer from the options given below:

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

**Options :**

- 92090644005. 1
- 92090644006. 2
- 92090644007. 3
- 92090644008. 4

**Question Number : 3 Question Id : 92090611142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

“Hope is central to humanity’s survival and flourishing. Yet some caution that hope alone is not a panacea”.

Through the underlined segment the writer is trying to:

- (1) instil fear about the seriousness of the problem of Eco-anxiety
- (2) warn that issue of Eco-anxiety can’t be taken lightly or ignored.
- (3) assure that hope will resolve the issue of Eco-anxiety.
- (4) mock the idea that hope and an optimistic approach can resolve the issue of Eco-anxiety.

**Options :**

- 92090644009. 1
- 92090644010. 2
- 92090644011. 3
- 92090644012. 4

**Question Number : 4 Question Id : 92090611143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II to complete the information on the basis of your reading from the passage.

List I

- (A) Manifestation of the negative impact of climate change
- (B) Experience of Eco-anxiety includes
- (C) Triggers of Eco-anxiety
- (D) Fundamental characteristics of climate change

List II

- (I) Intense emotions like fear, grief, anger and insomnia
- (II) Exposure to extreme weather and maladaptation to environmental changes
- (III) Uncertainty, Unpredictability, uncontrollability
- (IV) Cognitive, emotional and physical

Choose the correct answer from the options given below:

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

**Options :**

- 92090644013. 1
- 92090644014. 2
- 92090644015. 3
- 92090644016. 4

**Question Number : 5 Question Id : 92090611144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Eco-anxiety can also manifest in individuals without direct experience of climate change. This happens because of :

- (1) their unstable mental health condition
- (2) they watch excessively negative media messages
- (3) they are fully aware of the potential existential threat it presents
- (4) they are poor communicators and do not share their fears with health professionals

**Options :**

92090644017. 1

92090644018. 2

92090644019. 3

92090644020. 4

**Question Id : 92090611139 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (1 to 5)**

Question Label : Comprehension

Read the following passage and answer the next five questions by choosing the correct option:

Mara, a 24-year-old university student, seeks help for anxiety. She describes feeling paralyzed when thinking about climate change and the future; Leon, 51 and a father of three, requests treatment for panic attacks. They started last year after he and his family evacuated their home again due to wildfires; Isabel, a 16-year-old climate activist, wants support due to ruminating about the climate crisis to the extent that she can't focus on schoolwork.

The opening vignettes demonstrate that the climate change crisis is taking a toll on people's mental health. Uncertainty, unpredictability, and uncontrollability are three fundamental characteristics of climate change. Recent reviews have shown that the negative impacts of climate change are complex, manifest cognitively, emotionally, and physically and affect behaviours, relationships, and overall well-being. One such manifestation is anxiety related to the ongoing anthropogenic climate change or ecological doom, referred to as eco-anxiety.

The condition overlaps with other mental health disorders in the form of negative, and automatic reactions to a felt threat. However, most empirical studies on eco-anxiety to date surveyed the low-risk groups with smaller and unrepresentative samples. Rigorous research is needed to more completely understand it, clarify its distinct characteristics and contextual factors, and articulate its relationship with other mental health conditions.

Experiences of eco-anxiety often include dystopian thoughts and apocalyptic perceptions about the future, negative and sometimes intense emotions such as fear, anger, guilt, grief, and despair, as well as behavioural manifestations such as insomnia and panic attacks. Causes and triggers of eco-anxiety vary from direct exposure to traumatic extreme weather events like floods, hurricanes, and wildfires to maladaptation to long-term environmental changes like land loss, water scarcity, and pollution. It can also manifest in individuals without direct experience of climate change, simply from the awareness of the potential existential threat it presents.

Health professionals are improving ways to communicate climate concerns. Their voices are imperative for climate change communication and transformation. However, the urgency and complexity of ecological and climate crisis demand an interdisciplinary approach. Other disciplines can help advance these efforts by providing opportunities for innovative thinking and practice, such as with a sociological perspective regarding structures and connections in society; a political scientific approach to tension, conflict, and social movement; and communication strategies for patient-provider interaction, social support, community outreach, and public engagement.

Media coverage of ecological crisis can evoke eco-anxiety. Current messages about climate change are overwhelmingly negative, both linguistically and visually, contributing to a sense of doom and gloom. Hope is central to humanity's survival and flourishing. Yet some caution that hope alone is not a panacea.

### Sub questions

**Question Number : 1 Question Id : 92090611140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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- (A) An interdisciplinary approach is required to facilitate communication regarding climate change crisis.
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- (C) Eco-anxiety, its characteristics and context have been fully understood through extensive research.
- (D) The negative impacts of climate change affect behaviour, relationships and overall well-being.

Choose the correct answer from the options given below :

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

**Options :**

- 92090644001. 1
- 92090644002. 2
- 92090644003. 3
- 92090644004. 4

**Question Number : 2 Question Id : 92090611141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match the words in List I with their meanings in List II :

List I	List II
(A) Apocalyptic	(I) Related to human existence
(B) Dystopian	(II) Short piece of writing or acting about a person, place or event
(C) Existential	(III) Propheying a disaster or total destruction
(D) Vignettes	(IV) Relationship to an imagined society in which there is suffering and injustice

Choose the correct answer from the options given below:

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

**Options :**

- 92090644005. 1
- 92090644006. 2
- 92090644007. 3
- 92090644008. 4

**Question Number : 3 Question Id : 92090611142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

“Hope is central to humanity’s survival and flourishing. Yet some caution that hope alone is not a panacea”.

Through the underlined segment the writer is trying to:

- (1) instil fear about the seriousness of the problem of Eco-anxiety
- (2) warn that issue of Eco-anxiety can’t be taken lightly or ignored.
- (3) assure that hope will resolve the issue of Eco-anxiety.
- (4) mock the idea that hope and an optimistic approach can resolve the issue of Eco-anxiety.

**Options :**

- 92090644009. 1
- 92090644010. 2
- 92090644011. 3
- 92090644012. 4

**Question Number : 4 Question Id : 92090611143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II to complete the information on the basis of your reading from the passage.

List I

- (A) Manifestation of the negative impact of climate change
- (B) Experience of Eco-anxiety includes
- (C) Triggers of Eco-anxiety
- (D) Fundamental characteristics of climate change

List II

- (I) Intense emotions like fear, grief, anger and insomnia
- (II) Exposure to extreme weather and maladaptation to environmental changes
- (III) Uncertainty, Unpredictability, uncontrollability
- (IV) Cognitive, emotional and physical

Choose the correct answer from the options given below:

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

**Options :**

- 92090644013. 1
- 92090644014. 2
- 92090644015. 3
- 92090644016. 4



**Question Number : 5 Question Id : 92090611144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Eco-anxiety can also manifest in individuals without direct experience of climate change. This happens because of :

- (1) their unstable mental health condition
- (2) they watch excessively negative media messages
- (3) they are fully aware of the potential existential threat it presents
- (4) they are poor communicators and do not share their fears with health professionals

**Options :**

92090644017. 1  
92090644018. 2  
92090644019. 3  
92090644020. 4

**Sub-Section Number :** 2  
**Sub-Section Id :** 920906363  
**Question Shuffling Allowed :** Yes  
**Is Section Default? :** null

**Question Number : 6 Question Id : 92090611145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match the blanks in List I with the appropriate phrasal verb in List II :

- | List I   | List II              |
|--|----------------------|
| (A) Students usually speak French during class by occasionally ___ English.                  | (I) fell-out         |
| (B) The English professor wanted to ___ the importance of additional reading to his students | (II) lapse into      |
| (C) Capital punishment was ___ several years ago in Britain.                                 | (III) done away with |
| (D) I ___ with my brother over a trifle.   | (IV) drive home      |

Choose the correct answer from the options given below:

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

**Options :**

92090644021. 1  
92090644022. 2

92090644023. 3

92090644024. 4

**Question Number : 6 Question Id : 92090611145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match the blanks in List I with the appropriate phrasal verb in List II :

- | List I  | List II              |
|---|----------------------|
| (A) Students usually speak French during class by occasionally ____ English.                  | (I) fell-out         |
| (B) The English professor wanted to ____ the importance of additional reading to his students | (II) lapse into      |
| (C) Capital punishment was ____ several years ago in Britain.                                 | (III) done away with |
| (D) I ____ with my brother over a trifle.   | (IV) drive home      |

Choose the correct answer from the options given below:

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

**Options :**

92090644021. 1

92090644022. 2

92090644023. 3

92090644024. 4

**Question Number : 7 Question Id : 92090611146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The correctly spelt word from the given options is:-

- |                  |                   |
|------------------|-------------------|
| (1) IDEOSYNCRASY | (2) IDEOSINCRASY  |
| (3) IDIOSYNCRASY | (4) IDAOOSYNCRASY |

**Options :**

92090644025. 1

92090644026. 2

92090644027. 3

92090644028. 4

**Question Number : 7 Question Id : 92090611146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The correctly spelt word from the given options is:-

- |                  |                   |
|------------------|-------------------|
| (1) IDEOSYNCRASY | (2) IDEOSINCRASY  |
| (3) IDIOSYNCRASY | (4) IDAOOSYNCRASY |

**Options :**

- 92090644025. 1
- 92090644026. 2
- 92090644027. 3
- 92090644028. 4

**Question Number : 8 Question Id : 92090611147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Fill in the blanks with appropriate prepositions from the options given below:

ED had filed the fifth chargesheet \_\_\_ the case \_\_ May 4 and named Sisodia \_\_\_ an accused \_\_ a case concerning irregularities in the excise policy for the first time.

- |                       |                      |
|-----------------------|----------------------|
| (1) in, on, as, in    | (2) in, with, as, in |
| (3) in, on, with, for | (4) in, on, in, as   |

**Options :**

- 92090644029. 1
- 92090644030. 2
- 92090644031. 3
- 92090644032. 4

**Question Number : 8 Question Id : 92090611147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Fill in the blanks with appropriate prepositions from the options given below:

ED had filed the fifth chargesheet \_\_\_ the case \_\_ May 4 and named Sisodia \_\_\_ an accused \_\_ a case concerning irregularities in the excise policy for the first time.

- |                       |                      |
|-----------------------|----------------------|
| (1) in, on, as, in    | (2) in, with, as, in |
| (3) in, on, with, for | (4) in, on, in, as   |

**Options :**

- 92090644029. 1
- 92090644030. 2
- 92090644031. 3
- 92090644032. 4

**Question Number : 9 Question Id : 92090611148 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

An admirably stylish manner of doing things effortlessly:

- |             |               |
|-------------|---------------|
| (1) Pariah  | (2) Panache   |
| (3) Perjury | (4) Petrology |

**Options :**

- 92090644033. 1
- 92090644034. 2
- 92090644035. 3
- 92090644036. 4

**Question Number : 9 Question Id : 92090611148 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

An admirably stylish manner of doing things effortlessly:

- |             |               |
|-------------|---------------|
| (1) Pariah  | (2) Panache   |
| (3) Perjury | (4) Petrology |

**Options :**

- 92090644033. 1
- 92090644034. 2
- 92090644035. 3
- 92090644036. 4

**Question Number : 10 Question Id : 92090611149 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Synonym of the word "TRAIT" is :

- |            |                    |
|------------|--------------------|
| (1) Symbol | (2) Characteristic |
| (3) Colour | (4) Habit          |

**Options :**

- 92090644037. 1
- 92090644038. 2
- 92090644039. 3
- 92090644040. 4

**Question Number : 10 Question Id : 92090611149 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Synonym of the word "TRAIT" is :

- (1) Symbol (2) Characteristic  
(3) Colour (4) Habit

**Options :**

92090644037. 1  
92090644038. 2  
92090644039. 3  
92090644040. 4

**Question Number : 11 Question Id : 92090611150 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

If  $\cos \theta = \frac{10}{26}$ , then find the value of  $\cot \theta$ :

- (1)  $\frac{12}{25}$  (2)  $\frac{5}{12}$   
(3)  $\frac{12}{5}$  (4)  $\frac{6}{5}$

**Options :**

92090644041. 1  
92090644042. 2  
92090644043. 3  
92090644044. 4

**Question Number : 11 Question Id : 92090611150 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

If  $\cos \theta = \frac{10}{26}$ , then find the value of  $\cot \theta$ :

- (1)  $\frac{12}{25}$  (2)  $\frac{5}{12}$   
(3)  $\frac{12}{5}$  (4)  $\frac{6}{5}$

**Options :**

92090644041. 1  
92090644042. 2  
92090644043. 3  
92090644044. 4

**Question Number : 12 Question Id : 92090611151 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A journey takes 35 minutes while moving with a speed of 32 km/h. How long would the journey take (in minutes) moving at a speed of 40 km/h?

- (1) 28 (2) 24  
(3) 30 (4) 33

**Options :**

92090644045. 1  
92090644046. 2  
92090644047. 3  
92090644048. 4

**Question Number : 12 Question Id : 92090611151 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A journey takes 35 minutes while moving with a speed of 32 km/h. How long would the journey take (in minutes) moving at a speed of 40 km/h?

- (1) 28 (2) 24  
(3) 30 (4) 33

**Options :**

92090644045. 1  
92090644046. 2  
92090644047. 3  
92090644048. 4

**Question Number : 13 Question Id : 92090611152 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Ananya bought a shirt marked for ₹ 1,000 and paid ₹ 714 after availing two successive discounts of 15% and x%. Find the value of x.

- (1) 12.5 (2) 15  
(3) 16 (4) 20

**Options :**

92090644049. 1  
92090644050. 2  
92090644051. 3  
92090644052. 4

**Question Number : 13 Question Id : 92090611152 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Ananya bought a shirt marked for ₹ 1,000 and paid ₹ 714 after availing two successive discounts of 15% and x%. Find the value of x.

- (1) 12.5 (2) 15  
(3) 16 (4) 20

**Options :**

- 92090644049. 1
- 92090644050. 2
- 92090644051. 3
- 92090644052. 4

**Question Number : 14 Question Id : 92090611153 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A cone of height at 24 cm and base radius 6 cm is made of modelling clay. A child reshapes it in the form of a sphere. The radius of the sphere is:

- (1) 1 cm
- (2) 2 cm
- (3) 6 cm
- (4) 8 cm

**Options :**

- 92090644053. 1
- 92090644054. 2
- 92090644055. 3
- 92090644056. 4

**Question Number : 14 Question Id : 92090611153 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A cone of height at 24 cm and base radius 6 cm is made of modelling clay. A child reshapes it in the form of a sphere. The radius of the sphere is:

- (1) 1 cm
- (2) 2 cm
- (3) 6 cm
- (4) 8 cm

**Options :**

- 92090644053. 1
- 92090644054. 2
- 92090644055. 3
- 92090644056. 4

**Question Number : 15 Question Id : 92090611154 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A sum of ₹ 7,700 is lent on simple interest in two parts in such a way that the interest on the first part at 20% p.a. for 5 years is equal to the interest on the other part at 9% p.a. for 6 years. Find the smaller part of the sums lent in two parts.

- (1) ₹ 2,400
- (2) ₹ 5,000
- (3) ₹ 5,300
- (4) ₹ 2,700

**Options :**

- 92090644057. 1
- 92090644058. 2

92090644059. 3

92090644060. 4

**Question Number : 15 Question Id : 92090611154 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

A sum of ₹ 7,700 is lent on simple interest in two parts in such a way that the interest on the first part at 20% p.a. for 5 years is equal to the interest on the other part at 9% p.a. for 6 years. Find the smaller part of the sums lent in two parts.

- (1) ₹ 2,400 (2) ₹ 5,000  
(3) ₹ 5,300 (4) ₹ 2,700

**Options :**

92090644057. 1

92090644058. 2

92090644059. 3

92090644060. 4

**Question Number : 16 Question Id : 92090611155 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which interchange of signs in the equation which when made will make the equation correct.

$$20 + 20 \div 20 - 20 \times 20 = 20$$

- (1) + and ÷ (2) + and -  
(3) + and × (4) × and ÷

**Options :**

92090644061. 1

92090644062. 2

92090644063. 3

92090644064. 4

**Question Number : 16 Question Id : 92090611155 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which interchange of signs in the equation which when made will make the equation correct.

$$20 + 20 \div 20 - 20 \times 20 = 20$$

- (1) + and ÷ (2) + and -  
(3) + and × (4) × and ÷

**Options :**

92090644061. 1

92090644062. 2



92090644063. 3

92090644064. 4

**Question Number : 17 Question Id : 92090611156 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which value can come at place of ?, which will give same relationship on the left and right side of :: ?

5369 : 4258 :: 9875 : ?

(1) 8763

(2) 8764

(3) 7764

(4) 7763

**Options :**

92090644065. 1

92090644066. 2

92090644067. 3

92090644068. 4

**Question Number : 17 Question Id : 92090611156 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which value can come at place of ?, which will give same relationship on the left and right side of :: ?

5369 : 4258 :: 9875 : ?

(1) 8763

(2) 8764

(3) 7764

(4) 7763

**Options :**

92090644065. 1

92090644066. 2

92090644067. 3

92090644068. 4

**Question Number : 18 Question Id : 92090611157 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Milind said to Monu, "That boy playing is the younger of two brothers of the daughter of my father's wife". How is the boy who is playing is related to Milind:

(1) Brother

(2) Brother-in-law

(3) Son

(4) Cousin

**Options :**

92090644069. 1

92090644070. 2

92090644071. 3

92090644072. 4

**Question Number : 18 Question Id : 92090611157 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Milind said to Monu, "That boy playing is the younger of two brothers of the daughter of my father's wife". How is the boy who is playing is related to Milind:

- |             |                    |
|-------------|--------------------|
| (1) Brother | (2) Brother-in-law |
| (3) Son     | (4) Cousin         |

**Options :**

- 92090644069. 1
- 92090644070. 2
- 92090644071. 3
- 92090644072. 4

**Question Number : 19 Question Id : 92090611158 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Consider the statement and decide which of the assumption is implicit in the statement:

**Statement :** A physics teacher in the class announced to keep a copy of "Principles of physics" written by Haliday Resnick.

**Assumptions:**

- (I) Every student can afford to buy the book.
- (II) The book is well-written

- (1) If only assumption I is implicit
- (2) If only assumption II is implicit
- (3) If neither I nor II is implicit
- (4) If both assumption I and II are implicit

**Options :**

- 92090644073. 1
- 92090644074. 2
- 92090644075. 3
- 92090644076. 4

**Question Number : 19 Question Id : 92090611158 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Consider the statement and decide which of the assumption is implicit in the statement:

**Statement :** A physics teacher in the class announced to keep a copy of  
“Principles of physics” written by Haliday Resnick.

**Assumptions:**

- (I) Every student can afford to buy the book.
- (II) The book is well-written

- (1) If only assumption I is implicit
- (2) If only assumption II is implicit
- (3) If neither I nor II is implicit
- (4) If both assumption I and II are implicit

**Options :**

- 92090644073. 1
- 92090644074. 2
- 92090644075. 3
- 92090644076. 4

**Question Number : 20 Question Id : 92090611159 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which conclusion would follow on the basis of given statements:

Statements : (A) All pens are chalks.  
(B) All chairs are chalks.

Conclusions : (I) Some pens are chairs.  
(II) Some chalks are pens.

- (1) If conclusion (I) follows
- (2) If conclusion (II) follows
- (3) If either conclusion (I) or (II) follows
- (4) Both conclusion (I) and (II) follows

**Options :**

- 92090644077. 1
- 92090644078. 2
- 92090644079. 3
- 92090644080. 4

**Question Number : 20 Question Id : 92090611159 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which conclusion would follow on the basis of given statements:

Statements : (A) All pens are chalks.  
(B) All chairs are chalks.  
Conclusions : (I) Some pens are chairs.  
(II) Some chalks are pens.

- (1) If conclusion (I) follows
- (2) If conclusion (II) follows
- (3) If either conclusion (I) or (II) follows
- (4) Both conclusion (I) and (II) follows

**Options :**

- 92090644077. 1
- 92090644078. 2
- 92090644079. 3
- 92090644080. 4

**Question Number : 21 Question Id : 92090611160 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which feature acts as a watershed between the Indus and Gangetic river basins?

- |                    |                    |
|--------------------|--------------------|
| (1) Aravalli Ridge | (2) Shivalik Hills |
| (3) Vindhyan Range | (4) Satpura Hills  |

**Options :**

- 92090644081. 1
- 92090644082. 2
- 92090644083. 3
- 92090644084. 4

**Question Number : 21 Question Id : 92090611160 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which feature acts as a watershed between the Indus and Gangetic river basins?

- |                    |                    |
|--------------------|--------------------|
| (1) Aravalli Ridge | (2) Shivalik Hills |
| (3) Vindhyan Range | (4) Satpura Hills  |

**Options :**

- 92090644081. 1

92090644082. 2

92090644083. 3

92090644084. 4

**Question Number : 22 Question Id : 92090611161 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II :

List I (Name of committee)	List II (Various sector of India Economy)
(A) Bimal Jalan Committee	(I) Corporate Governance
(B) Birla Committee	(II) Improving national highways in India
(C) S R Harhim Committee	(III) Urban poverty
(D) Chaturvedi	(IV) Market infrastructure Instruments

Choose the correct answer from the options given below:

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

**Options :**

92090644085. 1

92090644086. 2

92090644087. 3

92090644088. 4

**Question Number : 22 Question Id : 92090611161 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II :

List I (Name of committee)	List II (Various sector of India Economy)
(A) Bimal Jalan Committee	(I) Corporate Governance
(B) Birla Committee	(II) Improving national highways in India
(C) S R Harhim Committee	(III) Urban poverty
(D) Chaturvedi	(IV) Market infrastructure Instruments

Choose the correct answer from the options given below:

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

**Options :**

92090644085. 1  
92090644086. 2  
92090644087. 3  
92090644088. 4

**Question Number : 23 Question Id : 92090611162 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

'Digi Yatra' facility has been implemented at \_\_\_\_ in the country.

- (1) Railway station
- (2) Airport
- (3) Inter State Bus Terminal(ISBT)
- (4) Port

**Options :**

92090644089. 1  
92090644090. 2  
92090644091. 3  
92090644092. 4

**Question Number : 23 Question Id : 92090611162 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

'Digi Yatra' facility has been implemented at \_\_\_\_ in the country.

- (1) Railway station
- (2) Airport
- (3) Inter State Bus Terminal(ISBT)
- (4) Port

**Options :**

92090644089. 1

92090644090. 2

92090644091. 3

92090644092. 4

**Question Number : 24 Question Id : 92090611163 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Given below are two statements :

Statement I : Gross Domestic product (GDP) is the final value of the goods and services produced within the geographical boundaries of a country during a year.

Statement II : Net Domestic Product (NDP) equals to the GDP plus depreciation (value loss of an asset) on country capital goods

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

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

**Options :**

92090644093. 1

92090644094. 2

92090644095. 3

92090644096. 4

**Question Number : 24 Question Id : 92090611163 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Given below are two statements :

Statement I : Gross Domestic product (GDP) is the final value of the goods and services produced within the geographical boundaries of a country during a year.

Statement II : Net Domestic Product (NDP) equals to the GDP plus depreciation (value loss of an asset) on country capital goods

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

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

**Options :**

- 92090644093. 1
- 92090644094. 2
- 92090644095. 3
- 92090644096. 4

**Question Number : 25 Question Id : 92090611164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The 'GEM' portal of Government of India deals with \_\_\_\_\_

- |                        |                                    |
|------------------------|------------------------------------|
| (1) Public Procurement | (2) Distance learning              |
| (3) Tele medicine      | (4) Aadhar based digital signature |

**Options :**

- 92090644097. 1
- 92090644098. 2
- 92090644099. 3
- 92090644100. 4

**Question Number : 25 Question Id : 92090611164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The 'GEM' portal of Government of India deals with \_\_\_\_\_

- |                        |                                    |
|------------------------|------------------------------------|
| (1) Public Procurement | (2) Distance learning              |
| (3) Tele medicine      | (4) Aadhar based digital signature |

**Options :**

- 92090644097. 1
- 92090644098. 2



92090644099. 3

92090644100. 4

## Part B: Applied Microbiology

Section Id :	920906222
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	75
Number of Questions to be attempted :	75
Section Marks :	300
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	920906364
Question Shuffling Allowed :	Yes
Is Section Default? :	null

**Question Number : 26 Question Id : 92090611165 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which of the following Scientists demonstrated that crossing over involves physical exchange between chromatids?

- |                     |                   |
|---------------------|-------------------|
| (1) T.H. Morgan     | (2) B. McClintock |
| (3) A.H. Sturtevant | (4) C. Bridges    |

**Options :**

- 92090644101. 1
- 92090644102. 2
- 92090644103. 3
- 92090644104. 4

**Question Number : 26 Question Id : 92090611165 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

निम्नलिखित में से किस वैज्ञानिक ने यह प्रदर्शित किया कि संक्रमण में अर्धसूत्रों में कायिक विनिमय सम्मिलित होता है?

- |                        |                    |
|------------------------|--------------------|
| (1) टी.एच. मॉर्गन      | (2) बी.मैक क्लिंटक |
| (3) ए.एच. स्टुर्टेवन्ट | (4) सी. ब्रिजिस    |

**Options :**

- 92090644101. 1
- 92090644102. 2

92090644103. 3

92090644104. 4

**Question Number : 27 Question Id : 92090611166 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The Symmetry of head in T<sub>4</sub> Phage is:

- |                 |             |
|-----------------|-------------|
| (1) Icosahedral | (2) Helical |
| (3) Complex     | (4) Simple  |

**Options :**

92090644105. 1

92090644106. 2

92090644107. 3

92090644108. 4

**Question Number : 27 Question Id : 92090611166 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

T<sub>4</sub> विभोजी में सिर की सममिति \_\_\_\_\_ होती है।

- |                   |               |
|-------------------|---------------|
| (1) विशफलकी       | (2) कुंडलिनीय |
| (3) सम्मिश्र/जटिल | (4) सरल       |

**Options :**

92090644105. 1

92090644106. 2

92090644107. 3

92090644108. 4

**Question Number : 28 Question Id : 92090611167 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which of the following is a eukaryotic microorganism?

- |               |                    |
|---------------|--------------------|
| (1) Bacterium | (2) Cyanobacterium |
| (3) Algae     | (4) Archaea        |

**Options :**

92090644109. 1

92090644110. 2

92090644111. 3

92090644112. 4

**Question Number : 28 Question Id : 92090611167 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

निम्न में से कौन सा यूकेरियोट एक सूक्ष्म जीव है?

- |            |                     |
|------------|---------------------|
| (1) जीवाणु | (2) साइनोबैक्टीरियम |
| (3) शैवाल  | (4) आर्की/आद्य      |

**Options :**

92090644109. 1  
92090644110. 2  
92090644111. 3  
92090644112. 4

**Question Number : 29 Question Id : 92090611168 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

T4 phage follows ..... Cycle.

- |                              |                |
|------------------------------|----------------|
| (1) Lytic                    | (2) Lysogenic  |
| (3) Both lytic and lysogenic | (4) Cell cycle |

**Options :**

92090644113. 1  
92090644114. 2  
92090644115. 3  
92090644116. 4

**Question Number : 29 Question Id : 92090611168 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

T<sub>4</sub> विभोजी निम्न \_\_\_\_\_ चक्र का अनुसरण करता है।

- |                         |                 |
|-------------------------|-----------------|
| (1) लयन                 | (2) लयजनक       |
| (3) लयन तथा लयजनक दोनों | (4) कोशिका चक्र |

**Options :**

92090644113. 1  
92090644114. 2  
92090644115. 3  
92090644116. 4

**Question Number : 30 Question Id : 92090611169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

UV light causes formation of following dimer in DNA:

- |              |              |
|--------------|--------------|
| (1) AA dimer | (2) UV dimer |
| (3) TT dimer | (4) GG dimer |

**Options :**

- 92090644117. 1
- 92090644118. 2
- 92090644119. 3
- 92090644120. 4

**Question Number : 30 Question Id : 92090611169 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

UV प्रकाश डी.एन.ए. में निम्न द्वितय का निर्माण करता है।

- |               |               |
|---------------|---------------|
| (1) AA द्वितय | (2) UU द्वितय |
| (3) TT द्वितय | (4) GG द्वितय |

**Options :**

- 92090644117. 1
- 92090644118. 2
- 92090644119. 3
- 92090644120. 4

**Question Number : 31 Question Id : 92090611170 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Methanogens belong to which group?

- |                            |             |
|----------------------------|-------------|
| (1) Eubacteria             | (2) Archaea |
| (3) Eubacteria and Archaea | (4) Eukarya |

**Options :**

- 92090644121. 1
- 92090644122. 2
- 92090644123. 3
- 92090644124. 4

**Question Number : 31 Question Id : 92090611170 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

मीथेनोजन निम्न में से किस समूह से संबंधित हैं?

- (1) यूबैक्टीरिया (2) आर्की  
(3) यूबैक्टीरिया तथा आर्की (4) यूकेरिया

**Options :**

92090644121. 1  
92090644122. 2  
92090644123. 3  
92090644124. 4

**Question Number : 32 Question Id : 92090611171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The Generation time of *E. coli* growing in nutrient broth at 37 °C is:

- (1) 90 minutes (2) 17 minutes  
(3) 50 minutes (4) 60 minutes

**Options :**

92090644125. 1  
92090644126. 2  
92090644127. 3  
92090644128. 4

**Question Number : 32 Question Id : 92090611171 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

पोषक शोरबे में 37° पर उत्पन्न होने वाले ई. कोली का जनन काल क्या है?

- (1) 90 मिनट (2) 17 मिनट  
(3) 50 मिनट (4) 60 मिनट

**Options :**

92090644125. 1  
92090644126. 2  
92090644127. 3  
92090644128. 4

**Question Number : 33 Question Id : 92090611172 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

What is a prophage?

- (1) Free Bacteriophage DNA
- (2) Bacteriophage DNA integrated into the bacterial genome
- (3) Bacterial DNA integrated into Bacteriophage DNA
- (4) Free bacterial DNA

**Options :**

92090644129. 1  
92090644130. 2  
92090644131. 3  
92090644132. 4

**Question Number : 33 Question Id : 92090611172 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

प्राग्बिभोजी क्या है?

- (1) स्वतंत्र जीवाणुविभोजी डी.एन.ए.
- (2) जीवाणुज जीनोम के साथ एकीकृत जीवाणुभोजी डी.एन.ए.
- (3) जावाणुविभोजी डी.एन.ए. में एकीकृत जीवाणुज डी.एन.ए.
- (4) स्वतंत्र जीवाणुज डी.एन.ए.

**Options :**

92090644129. 1  
92090644130. 2  
92090644131. 3  
92090644132. 4

**Question Number : 34 Question Id : 92090611173 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Beta-galactocidase gene inducer is:

- |             |                 |
|-------------|-----------------|
| (1) Glucose | (2) Mannose     |
| (3) Betaine | (4) Allolactose |

**Options :**

92090644133. 1  
92090644134. 2  
92090644135. 3  
92090644136. 4

**Question Number : 34 Question Id : 92090611173 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

बीटा-गैलेक्टोसाइडेस जीन विप्रेरक कौन सा है?

- |              |                |
|--------------|----------------|
| (1) ग्लूकोज़ | (2) मैनोज़     |
| (3) बीटेन    | (4) एलोलैक्टोस |

**Options :**

92090644133. 1  
92090644134. 2  
92090644135. 3  
92090644136. 4

**Question Number : 35 Question Id : 92090611174 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In the transversion mutations:

- (1) Purine is substituted for a pyrimidine
- (2) Purine is substituted for a purine
- (3) Pyrimidine is substituted for a pyrimidine
- (4) An extra purine is inserted

**Options :**

92090644137. 1  
92090644138. 2  
92090644139. 3  
92090644140. 4

**Question Number : 35 Question Id : 92090611174 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

अनुप्रस्त उत्परिवर्तन में -

- (1) प्यूरीन का पिरिमिडिन प्रतिस्थापित होना
- (2) प्यूरीन का प्यूरीन के लिए प्रतिस्थापित होना
- (3) पिरिमिडिन का पिरिमिडिन के लिए प्रतिस्थापित होना
- (4) एक अतिरिक्तप्यूरीन डाला जाता है

**Options :**

92090644137. 1  
92090644138. 2  
92090644139. 3  
92090644140. 4

**Question Number : 36 Question Id : 92090611175 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which of the following cyanobacteria is not used as biofertilizer?

- (1) *Nostoc* (2) *Anabaena*  
(3) *Stigonema* (4) *Scytonema*

**Options :**

92090644141. 1  
92090644142. 2  
92090644143. 3  
92090644144. 4

**Question Number : 36 Question Id : 92090611175 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

निम्नलिखित में से कौन सा सायनोबैक्टीरिया जैवउर्वरक के रूप में उपयोग नहीं होता?

- (1) नॉस्टॉक (2) एनाबीना  
(3) स्टाइगोनीमा (4) स्काइटोनीमा

**Options :**

92090644141. 1  
92090644142. 2  
92090644143. 3  
92090644144. 4

**Question Number : 37 Question Id : 92090611176 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which one is the non-symbiotic biofertilizer?

- (1) *Anabaena* (2) *Azolla*  
(3) *Rhizobium* (4) *Azotobacter*

**Options :**

92090644145. 1  
92090644146. 2  
92090644147. 3  
92090644148. 4

**Question Number : 37 Question Id : 92090611176 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

निम्न में से कौन सा असहजीवी जैवउर्वरक है?

- (1) एनाबीना (2) अज़ोला  
(3) राइज़ोबियम (4) अज़ोटोबैक्टर



**Options :**

- 92090644145. 1
- 92090644146. 2
- 92090644147. 3
- 92090644148. 4

**Question Number : 38 Question Id : 92090611177 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In microbial interaction, if one organism adversely effects another organism, it is known as:

- (1) Commensalism
- (2) Mutualism
- (3) Amensalism
- (4) Competition

**Options :**

- 92090644149. 1
- 92090644150. 2
- 92090644151. 3
- 92090644152. 4

**Question Number : 38 Question Id : 92090611177 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूक्ष्मजीवी अंतःक्रिया में, यदि एक जीव दूसरे जीव पर प्रतिकूल प्रभाव डालता है, तो इसे \_\_\_\_\_ कहते हैं।

- (1) सहभोजिता
- (2) पारस्परिकता
- (3) असहभोजिता
- (4) प्रतिस्पर्धा

**Options :**

- 92090644149. 1
- 92090644150. 2
- 92090644151. 3
- 92090644152. 4

**Question Number : 39 Question Id : 92090611178 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which organelle is absent in plant cells compared to animal cells?

- (1) Mitochondria
- (2) Nucleus
- (3) Centrosomes
- (4) Ribosomes

**Options :**

- 92090644153. 1
- 92090644154. 2

92090644155. 3

92090644156. 4

**Question Number : 39 Question Id : 92090611178 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

जंतु कोशिका की तुलना में कौन सा कौशिकांग पादप कोशिका में अनुपस्थित होता है?

- |                     |              |
|---------------------|--------------|
| (1) माइटोकॉण्ड्रिया | (2) केन्द्रक |
| (3) सैन्ट्रोसोम     | (4) राइबोसोम |

**Options :**

92090644153. 1

92090644154. 2

92090644155. 3

92090644156. 4

**Question Number : 40 Question Id : 92090611179 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Crossing over takes place during which phase of meiosis?

- |                |                 |
|----------------|-----------------|
| (1) Pachytene  | (2) Diplotene   |
| (3) Diakinesis | (4) Metaphase I |

**Options :**

92090644157. 1

92090644158. 2

92090644159. 3

92090644160. 4

**Question Number : 40 Question Id : 92090611179 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

अर्धसूत्रण की किस अवस्था में विनिमय होता है?

- |                 |               |
|-----------------|---------------|
| (1) पैकीटीन     | (2) डिप्लोटीन |
| (3) डाइकाइनेसिस | (4) मैटाफेरा। |

**Options :**

92090644157. 1

92090644158. 2

92090644159. 3

92090644160. 4

**Question Number : 41 Question Id : 92090611180 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Dominant plant genotype can be determined by:

- |                |                    |
|----------------|--------------------|
| (1) Back Cross | (2) Hybrid Cross   |
| (3) Test Cross | (4) Dihybrid Cross |

**Options :**

- 92090644161. 1
- 92090644162. 2
- 92090644163. 3
- 92090644164. 4

**Question Number : 41 Question Id : 92090611180 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

प्रभावी पादप जीनोटाइप को \_\_\_\_\_ द्वारा निर्धारित किया जा सकता है। (जीनप्ररूप)

- |                     |                   |
|---------------------|-------------------|
| (1) प्रतीप संकर     | (2) हाइब्रिड संकर |
| (3) परीक्षार्थ संकर | (4) द्विसंकर      |

**Options :**

- 92090644161. 1
- 92090644162. 2
- 92090644163. 3
- 92090644164. 4

**Question Number : 42 Question Id : 92090611181 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In one of the Mendel's crosses, he observed 315 round yellow, 108 round green, 101 wrinkled yellow and 32 wrinkled green F<sub>2</sub> plants. Identify the type of cross.

- |                    |                      |
|--------------------|----------------------|
| (1) Dihybrid Cross | (2) Trihybrid Cross  |
| (3) Epistasis      | (4) Monohybrid Cross |

**Options :**

- 92090644165. 1
- 92090644166. 2
- 92090644167. 3
- 92090644168. 4

**Question Number : 42 Question Id : 92090611181 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

विभिन्न संकरणों में से एक में मंडल ने 315 गोलब पीले, 108 गोल व हरे, 101 झुर्रीदार तथा 32 झुर्रीदार हरे पौधों को देखा।

- |                    |                    |
|--------------------|--------------------|
| (1) द्विसंकर संकरण | (2) त्रिसंकर संकरण |
| (3) ऐपीस्टेसिस     | (4) एकसंकर संकर    |

**Options :**

- 92090644165. 1
- 92090644166. 2
- 92090644167. 3
- 92090644168. 4

**Question Number : 43 Question Id : 92090611182 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Cell cycle is regulated by:

- (1) Cyclins phosphorylation
- (2) Cyclins dephosphorylations
- (3) Cyclins dependent cyclins dephosphorlations
- (4) Protein phosphorylation and degradation

**Options :**

- 92090644169. 1
- 92090644170. 2
- 92090644171. 3
- 92090644172. 4

**Question Number : 43 Question Id : 92090611182 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

कोशिका चक्र को किसके द्वारा विनियमित किया जाता है?

- (1) साइक्लिन फॉस्फोरिलीकरण
- (2) साइक्लिन फॉस्फोरिलीकरण
- (3) साइक्लिन परावलंबित साइक्लिन फॉस्फोरिलीकरण
- (4) प्रोटीन का फॉस्फोरिलीकरण तथा निम्नीकरण

**Options :**

- 92090644169. 1
- 92090644170. 2
- 92090644171. 3
- 92090644172. 4

**Question Number : 44 Question Id : 92090611183 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The disaccharide which gives two same monosaccharide on hydrolysis is:

- |             |               |
|-------------|---------------|
| (1) Sucrose | (2) Lactose   |
| (3) Maltose | (4) Lactulose |

**Options :**

92090644173. 1  
92090644174. 2  
92090644175. 3  
92090644176. 4

**Question Number : 44 Question Id : 92090611183 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

जल अपघटन करने पर कौन सा डाइ-सैकेराइड दो एक समान मोनो-सैके राइड प्रदान करता है?

- |             |               |
|-------------|---------------|
| (1) सूक्रोज | (2) लैक्टोज   |
| (3) माल्टोज | (4) लैक्टुलोज |

**Options :**

92090644173. 1  
92090644174. 2  
92090644175. 3  
92090644176. 4

**Question Number : 45 Question Id : 92090611184 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In which of the following animals, environmental factors determine the sex?

- |             |                  |
|-------------|------------------|
| (1) Snake   | (2) Monkey       |
| (3) Turtles | (4) Grasshoppers |

**Options :**

92090644177. 1  
92090644178. 2  
92090644179. 3  
92090644180. 4

**Question Number : 45 Question Id : 92090611184 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

निम्न में से किस प्राणी में लिंग निर्धारण पर्यावरणीय कारकों द्वारा किया जात है?

- |          |            |
|----------|------------|
| (1) सर्प | (2) बंदर   |
| (3) कहुआ | (4) टिड्डा |

**Options :**

92090644177. 1  
92090644178. 2  
92090644179. 3  
92090644180. 4

**Question Number : 46 Question Id : 92090611185 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In recessive mutation:

- (1) Gene expressed only when heterozygous
- (2) Gene expressed when homozygous
- (3) Gene is not expressed
- (4) Gene is eliminated by natural selection

**Options :**

92090644181. 1  
92090644182. 2  
92090644183. 3  
92090644184. 4

**Question Number : 46 Question Id : 92090611185 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

अप्रभावी उत्परिवर्तन में -

- (1) जीन विषमयुग्मजी होने पर ही अभिव्यक्त होते हैं।
- (2) जीन समयुग्मजी होने पर अभिव्यक्त होते हैं।
- (3) जीन अभिव्यक्त नहीं होते।
- (4) जीन को प्राकृतिक चयन द्वारा हटा दिया जाता है।

**Options :**

92090644181. 1  
92090644182. 2  
92090644183. 3  
92090644184. 4

**Question Number : 47 Question Id : 92090611186 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The Taq DNA polymerase from *Thermus aquaticus* belongs to which class of DNA Polymerase?

- |         |        |
|---------|--------|
| (1) I   | (2) II |
| (3) III | (4) IV |

**Options :**

92090644185. 1  
92090644186. 2  
92090644187. 3  
92090644188. 4

**Question Number : 47 Question Id : 92090611186 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

थर्मस एक्केलिकस में से डी एन ए पॉलीमैरेस, डी.एन.ए। पॉलीमैरेस के किस वर्ग से संबंधित है?

- (1) I (2) II  
(3) III (4) IV

**Options :**

92090644185. 1  
92090644186. 2  
92090644187. 3  
92090644188. 4

**Question Number : 48 Question Id : 92090611187 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In humans, the most abundant protein is:

- (1) Lysozyme (2) Keratin  
(3) Collagen (4) Immunoglobulin

**Options :**

92090644189. 1  
92090644190. 2  
92090644191. 3  
92090644192. 4

**Question Number : 48 Question Id : 92090611187 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

मानवों में सर्वाधिक प्रचुरता में पाया जाने वाला प्रोटीन है -

- (1) लाइसोज़ाइम (2) केराटिन  
(3) कोलाजन (4) इम्यूनोग्लोबिन

**Options :**

92090644189. 1  
92090644190. 2  
92090644191. 3  
92090644192. 4

**Question Number : 49 Question Id : 92090611188 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The Succession process in which microorganisms modify the habitat in a way that permit new populations to develop is called:

- |                          |                          |
|--------------------------|--------------------------|
| (1) Allogenic Succession | (2) Community Succession |
| (3) Secondary Succession | (4) Autogenic Succession |

**Options :**

- 92090644193. 1
- 92090644194. 2
- 92090644195. 3
- 92090644196. 4

**Question Number : 49 Question Id : 92090611188 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

अनुक्रमण की वह प्रक्रिया जिसमें सूक्ष्मजीव अपने आवास को इस प्रकार रूपांतरित करते हैं जिससे उनकी नई जनसंख्या का विकास हो पाता है, उसे \_\_\_\_\_ कहते हैं।

- |                          |                        |
|--------------------------|------------------------|
| (1) अन्यत्रजनिक अनुक्रमण | (2) सामुदायिक अनुक्रमण |
| (3) द्वितीयक अनुक्रमण    | (4) स्वजनिक अनुक्रमण   |

**Options :**

- 92090644193. 1
- 92090644194. 2
- 92090644195. 3
- 92090644196. 4

**Question Number : 50 Question Id : 92090611189 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In vertebrates, fat is stored in the form of:

- |                      |                      |
|----------------------|----------------------|
| (1) Arachidonic acid | (2) Triacylglycerols |
| (3) Waxes            | (4) Oleic Acid       |

**Options :**

- 92090644197. 1
- 92090644198. 2
- 92090644199. 3
- 92090644200. 4

**Question Number : 50 Question Id : 92090611189 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**



**Correct Marks : 4 Wrong Marks : 1**

कशेरुकीय प्राणियों में वसा निम्नलिखित में से किस रूप में संग्रहित होती है?

- (1) अराकिडॉनिक अम्ल (2) ट्राइसाइल ग्लिसरोल  
(3) मोम (4) ओलीक अम्ल

**Options :**

92090644197. 1  
92090644198. 2  
92090644199. 3  
92090644200. 4

**Question Number : 51 Question Id : 92090611190 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following immunoglobulin class is found in maximum concentrations in blood?

- (1) Ig A (2) Ig G  
(3) Ig E (4) Ig M

**Options :**

92090644201. 1  
92090644202. 2  
92090644203. 3  
92090644204. 4

**Question Number : 51 Question Id : 92090611190 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

निम्नलिखित में से प्रतिरक्षाग्लोब्यूलिन कौन सा वर्ग सधिर सांद्रता में अधिकतम पाया जाता है?

- (1) IgA (2) IgG  
(3) IgE (4) IgM

**Options :**

92090644201. 1  
92090644202. 2  
92090644203. 3  
92090644204. 4

**Question Number : 52 Question Id : 92090611191 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

In the plasma membrane, the most abundant lipids are:

- |                  |                 |
|------------------|-----------------|
| (1) Sterol       | (2) Cholesterol |
| (3) Phospholipid | (4) Glycolipid  |

**Options :**

- 92090644205. 1
- 92090644206. 2
- 92090644207. 3
- 92090644208. 4

**Question Number : 52 Question Id : 92090611191 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

प्लाज़्मा झिल्ली में सर्वाधिक प्रचुर मात्रा में कौन से लिपिड हैं?

- |                 |                  |
|-----------------|------------------|
| (1) स्टिरोल     | (2) कोलेस्ट्रॉल  |
| (3) फॉस्फोलिपिड | (4) ग्लाइकोलिपिड |

**Options :**

- 92090644205. 1
- 92090644206. 2
- 92090644207. 3
- 92090644208. 4

**Question Number : 53 Question Id : 92090611192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In the red light region, which pigment has higher absorbance:

- |                   |                       |
|-------------------|-----------------------|
| (1) Carotene      | (2) Chlorophyll A     |
| (3) Chlorophyll B | (4) Chlorophyll A & B |

**Options :**

- 92090644209. 1
- 92090644210. 2
- 92090644211. 3
- 92090644212. 4

**Question Number : 53 Question Id : 92090611192 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

लाल प्रकाश क्षेत्र में कौन से वर्णक का सर्वाधिक अवशोषणांक है?

- |                  |                        |
|------------------|------------------------|
| (1) कैरोटीन      | (2) क्लोरोफिल ए        |
| (3) क्लोरोफिल बी | (4) क्लोरोफिल ए तथा बी |

**Options :**

- 92090644209. 1
- 92090644210. 2
- 92090644211. 3
- 92090644212. 4

**Question Number : 54 Question Id : 92090611193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Which is most abundant enzyme on this planet?

- (1) Catalase
- (2) Amylase
- (3) RuBisCo
- (4) Carbonic anhydrase

**Options :**

- 92090644213. 1
- 92090644214. 2
- 92090644215. 3
- 92090644216. 4

**Question Number : 54 Question Id : 92090611193 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

इस ग्रह पर कौन सा एंजाइम सबसे अधिक प्रचुरता में है?

- (1) कैटालेस
- (2) एमाइलेस
- (3) रुबिसको (Rubisco)
- (4) कार्बोनिक एनहाइड्रेस

**Options :**

- 92090644213. 1
- 92090644214. 2
- 92090644215. 3
- 92090644216. 4

**Question Number : 55 Question Id : 92090611194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Seed dormancy is due to the accumulation of:

- (1) Auxin
- (2) Gibberellin
- (3) Abscisic acid
- (4) Cytokinin

**Options :**

- 92090644217. 1
- 92090644218. 2
- 92090644219. 3
- 92090644220. 4

**Question Number : 55 Question Id : 92090611194 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

बीज प्रसुप्ति किसके एकत्रीकरण के कारण होती है?

- |                  |                |
|------------------|----------------|
| (1) ऑक्सिन       | (2) गिबरलिन    |
| (3) एबसिसिक अम्ल | (4) साइटोकिनिन |

**Options :**

- 92090644217. 1
- 92090644218. 2
- 92090644219. 3
- 92090644220. 4

**Question Number : 56 Question Id : 92090611195 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Bacteria protect themselves by fragmenting viral DNA upon entry by:

- |                  |                  |
|------------------|------------------|
| (1) Endonuclease | (2) Methylase    |
| (3) Ligase       | (4) Exonucleases |

**Options :**

- 92090644221. 1
- 92090644222. 2
- 92090644223. 3
- 92090644224. 4

**Question Number : 56 Question Id : 92090611195 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

विषाणु के माध्यम से बैक्टीरिया, स्वयं की रक्षा विषाणु के डी.एन.ए. के खंडन द्वारा \_\_\_\_\_ के प्रवेश से करते हैं।

- |                     |                      |
|---------------------|----------------------|
| (1) एंडोन्यूक्लियेस | (2) मिथाइलेस         |
| (3) लीगस            | (4) एक्सोन्यूक्लियेस |

**Options :**

- 92090644221. 1
- 92090644222. 2
- 92090644223. 3
- 92090644224. 4

**Question Number : 57 Question Id : 92090611196 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

In Reverse Phase Chromatography

- (1) Mobile phase is polar, stationary phase is non polar
- (2) Both mobile and stationary phases are polar
- (3) Mobile phase is non polar, stationary phase is polar
- (4) Both mobile and stationary phase are non polar

**Options :**

- 92090644225. 1
- 92090644226. 2
- 92090644227. 3
- 92090644228. 4

**Question Number : 57 Question Id : 92090611196 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

उत्क्रम प्रवस्था पर्णलेखिकी में :-

- (1) गतिशील प्रवस्था ध्रुवीय है, स्थिर प्रवस्था अध्रुवीय है।
- (2) दोनों गतिशील व स्थिर प्रवस्थाएँ ध्रुवीय हैं।
- (3) गतिशील प्रवस्था अध्रुवीय है, स्थिर प्रवस्था ध्रुवीय है।
- (4) दोनों गतिशील व स्थिर प्रवस्थाएँ अध्रुवीय हैं।

**Options :**

- 92090644225. 1
- 92090644226. 2
- 92090644227. 3
- 92090644228. 4

**Question Number : 58 Question Id : 92090611197 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

At isoelectric point, proteins have:

- |                     |                     |
|---------------------|---------------------|
| (1) Positive Charge | (2) Negative Charge |
| (3) Neutral         | (4) No net Charge   |

**Options :**

- 92090644229. 1
- 92090644230. 2
- 92090644231. 3
- 92090644232. 4

**Question Number : 58 Question Id : 92090611197 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

समाविभव बिन्दु पर प्रोटीन कौन सा आवेश रखते हैं?

- |                  |                    |
|------------------|--------------------|
| (1) धनात्मक आवेश | (2) नकारात्मक आवेश |
| (3) उदासीन       | (4) आवेश रहित      |

**Options :**

- 92090644229. 1
- 92090644230. 2
- 92090644231. 3
- 92090644232. 4

**Question Number : 59 Question Id : 92090611198 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

In xylem, which type of transport is present?

- |                      |                   |
|----------------------|-------------------|
| (1) Unidirectional   | (2) Bidirectional |
| (3) Multidirectional | (4) No transport  |

**Options :**

- 92090644233. 1
- 92090644234. 2
- 92090644235. 3
- 92090644236. 4

**Question Number : 59 Question Id : 92090611198 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

जाइलम में किस प्रकार का संवहन पाया जाता है?

- |              |                       |
|--------------|-----------------------|
| (1) एकदिशीय  | (2) द्विदिशीय         |
| (3) बहुदिशीय | (4) कोई भी संवहन नहीं |

**Options :**

- 92090644233. 1
- 92090644234. 2
- 92090644235. 3
- 92090644236. 4

**Question Number : 60 Question Id : 92090611199 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

The term ecosystem was coined by:

- |                  |                   |
|------------------|-------------------|
| (1) A.G. Tansley | (2) Louis Pasteur |
| (3) E.P. Odum    | (4) M. Tswett     |

**Options :**

- 92090644237. 1
- 92090644238. 2
- 92090644239. 3
- 92090644240. 4

**Question Number : 60 Question Id : 92090611199 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

पारिस्थितिकी शब्दावली में प्रत्येक जीव के प्राकृतिक निवास को \_\_\_\_\_ जाना जाता है।

- |                   |          |
|-------------------|----------|
| (1) उपयुक्त स्थान | (2) आदत  |
| (3) बायोम         | (4) आवास |

**Options :**

- 92090644237. 1
- 92090644238. 2
- 92090644239. 3
- 92090644240. 4

**Question Number : 61 Question Id : 92090611200 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

In ecology terminology, the natural residence of every organism is known as:

- |           |             |
|-----------|-------------|
| (1) Niche | (2) Habit   |
| (3) Biome | (4) Habitat |

**Options :**

- 92090644241. 1
- 92090644242. 2
- 92090644243. 3
- 92090644244. 4

**Question Number : 61 Question Id : 92090611200 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

ज़ैरोघाइट किसके लिए जाने जाते हैं?

- |  |   |
|--|---|
| (1) शुष्क स्थान में उत्पन्न होने के लिए।       | (2) दलदल में उत्पन्न होने के लिए।         |
| (3) बहुत आर्द्र स्थान में उत्पन्न होने के लिए। | (4) समुद्र के जल में उत्पन्न होने के लिए। |

**Options :**

- 92090644241. 1
- 92090644242. 2
- 92090644243. 3
- 92090644244. 4

**Question Number : 62 Question Id : 92090611201 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Xerophytes:

- |                                |                      |
|--------------------------------|----------------------|
| (1) Grow in a dry place        | (2) Grow in swamp    |
| (3) Grow in a very humid place | (4) Grow in seawater |

**Options :**

- 92090644245. 1
- 92090644246. 2
- 92090644247. 3
- 92090644248. 4

**Question Number : 62 Question Id : 92090611201 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

ज़ैरोघाइट किसके लिए जाने जाते हैं?

- |  |   |
|--|---|
| (1) शुष्क स्थान में उत्पन्न होने के लिए।       | (2) दलदल में उत्पन्न होने के लिए।         |
| (3) बहुत आर्द्र स्थान में उत्पन्न होने के लिए। | (4) समुद्र के जल में उत्पन्न होने के लिए। |

**Options :**

- 92090644245. 1
- 92090644246. 2
- 92090644247. 3
- 92090644248. 4

**Question Number : 63 Question Id : 92090611202 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The final electron acceptor in lactic acid fermentation is:

- |                      |                 |
|----------------------|-----------------|
| (1) O <sub>2</sub>   | (2) Lactic acid |
| (3) NAD <sup>+</sup> | (4) Pyruvate    |

**Options :**

- 92090644249. 1
- 92090644250. 2
- 92090644251. 3
- 92090644252. 4

**Question Number : 63 Question Id : 92090611202 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**



लैक्टिक अम्ल के किण्वन में अंतिम इलेक्ट्रान ग्राही \_\_\_\_\_ है।

- (1) O<sub>2</sub> (2) अम्ल  
(3) NAD<sup>+</sup> (4) पाइरु

**Options :**

92090644249. 1  
92090644250. 2  
92090644251. 3  
92090644252. 4

**Question Number : 64 Question Id : 92090611203 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The activity of a species determines community structure in spite of their low abundance or biomass; that species is called as:

- (1) Keystone species (2) Dominant species  
(3) Abundant species (4) Evolutionary species

**Options :**

92090644253. 1  
92090644254. 2  
92090644255. 3  
92090644256. 4

**Question Number : 64 Question Id : 92090611203 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

निम्न प्रचुरता या बायोमास होने पर भी स्पीशीज़ की गतिविधि सामुदायिक संरचना को निर्धारित करती है?

- (1) संधानप्रस्तर स्पीशीज़ (2) प्रभावी स्पीशीज़  
(3) प्रचुर स्पीशीज़ (4) विकासवादी स्पीशीज़

**Options :**

92090644253. 1  
92090644254. 2  
92090644255. 3  
92090644256. 4

**Question Number : 65 Question Id : 92090611204 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

The species that first colonize in new habitats created by disturbance is known as:

- |                      |                               |
|----------------------|-------------------------------|
| (1) Dominant species | (2) Late Successional species |
| (3) Pioneer species  | (4) Novel species             |

**Options :**

- 92090644257. 1
- 92090644258. 2
- 92090644259. 3
- 92090644260. 4

**Question Number : 65 Question Id : 92090611204 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

उस स्पीशीज़ को क्या कहते हैं जो व्यवधान के कारण निर्मित नए आवास में सर्वप्रथम उपनिवेश बनाती है?

- |                                |                               |
|--------------------------------|-------------------------------|
| (1) प्रभावी स्पीशीज़           | (2) देर से अनुक्रमिक स्पीशीज़ |
| (3) पॉयनियर (प्रणेता) स्पीशीज़ | (4) नवीन स्पीशीज़             |

**Options :**

- 92090644257. 1
- 92090644258. 2
- 92090644259. 3
- 92090644260. 4

**Question Number : 66 Question Id : 92090611205 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Lichens is a well-known indicator of:

- |                     |                     |
|---------------------|---------------------|
| (1) Water pollution | (2) Land pollution  |
| (3) Air pollution   | (4) Noise pollution |

**Options :**

- 92090644261. 1
- 92090644262. 2
- 92090644263. 3
- 92090644264. 4

**Question Number : 66 Question Id : 92090611205 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

लाइकेन किसका जाना माना सूचक है?

- |                  |                   |
|------------------|-------------------|
| (1) जल प्रदूषण   | (2) थल प्रदूषण    |
| (3) वायु प्रदूषण | (4) ध्वनि प्रदूषण |

**Options :**

- 92090644261. 1
- 92090644262. 2
- 92090644263. 3
- 92090644264. 4

**Question Number : 67 Question Id : 92090611206 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Polygyny means:

- (1) One male mates with several females
- (2) One female mates with several males
- (3) One female mates with one male
- (4) One male mates with one female

**Options :**

- 92090644265. 1
- 92090644266. 2
- 92090644267. 3
- 92090644268. 4

**Question Number : 67 Question Id : 92090611206 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

बहुपत्नीत्व का क्या अर्थ है?

- (1) एक पुरुष कई स्त्रियों के साथ संगम करता है।
- (2) एक स्त्री कई पुरुषों के साथ संगम करती है।
- (3) एक स्त्री एक ही पुरुष के साथ करती है।
- (4) एक पुरुष एक ही स्त्री के साथ संगम करता है।

**Options :**

- 92090644265. 1
- 92090644266. 2
- 92090644267. 3
- 92090644268. 4

**Question Number : 68 Question Id : 92090611207 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Humans are:

- (1) K selection species (2) r-selection species  
(3) both k and r-selection species (4) none of these

Options :

92090644269. 1  
92090644270. 2  
92090644271. 3  
92090644272. 4

Question Number : 68 Question Id : 92090611207 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

मनुष्य \_\_\_\_\_ हैं।

- (1) K चयनित स्पीशीज़ (2) r- चयनित स्पीशीज़  
(3) K तथा r- चयनित स्पीशीज़ दोनों (4) इनमें से कोई नहीं

Options :

92090644269. 1  
92090644270. 2  
92090644271. 3  
92090644272. 4

Question Number : 69 Question Id : 92090611208 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Assertion A : *Trichodesmium*, a filamentous, non-heterocystous cyanobacterium fixes  $N_2$  under aerobic conditions in Dead Sea.

Reasons R : *Trichodesmium* contains a specialized hyaline vegetative cell called 'diazocyte' which protects nitrogenase from  $O_2$  inactivation.

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

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

**Options :**

92090644273. 1  
92090644274. 2  
92090644275. 3  
92090644276. 4

**Question Number : 69 Question Id : 92090611208 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : ट्रायकोडेसमियम, एक तंतुमय, गैट-हीट्रोसिन्टस सायनोबैक्टीरिया वायुवीय स्थिति में नाइट्रोजन को लाल सागर में निर्धारित करता है।

कारण R : ट्रायकोडेसमियम में एक विशिष्ट काचाभ तनस्पति कोशिका होती है जिसे 'हाइएजोसाइट' कहते हैं, जो के निष्क्रियण के लिए नाइट्रोजेनेस को सुरक्षित करता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है  
(2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है  
(3) A सही हैं, लेकिन R सही नहीं है  
(4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644273. 1  
92090644274. 2  
92090644275. 3  
92090644276. 4

**Question Number : 70 Question Id : 92090611209 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Assertion A : *Polysiphonia* possesses triphasic life cycle- Gametangial phase, Carposporophytic phase and tetrasporangial phase, Carposporophyte is a minute microscopic phase.

Reasons R : Carposporophyte is found in female gametophytic plant.

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

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

**Options :**

92090644277. 1
92090644278. 2
92090644279. 3
92090644280. 4

**Question Number : 70 Question Id : 92090611209 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : पॉलीसाइफोनिया का त्रिअवस्थीय जीवन चक्र होता है - युग्मकधानीय अवस्था, कार्पोबीजाणु उद्भिद् एक लघु सूक्ष्मदर्शिकी अवस्था है।

कारण R : कार्पोबीजाणु उद्भिद् मादा युग्मोकदभिदी पादप में पाया जाता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644277. 1
92090644278. 2
92090644279. 3
92090644280. 4

**Question Number : 71 Question Id : 92090611210 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Assertion A : N-fertilizer is added in rice field in the form of ammonium salt and urea, which is rapidly converted into nitrate. Nitrate is assimilated by plants, however, much proportion is leached, percolated into ground water or return to atmosphere in the form of  $N_2$  gas.

Reasons R : Bacteria such as *Pseudomonas denitrificans*, *Paracoccus denitrificans* and *Thiobacillus denitrificans* are involved in denitrification process.

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

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

**Options :**

- 92090644281. 1
- 92090644282. 2
- 92090644283. 3
- 92090644284. 4

**Question Number : 71 Question Id : 92090611210 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं:

कथन I : N-उर्वरक को धान के खेत में अमोनियम लवण तथा यूरिया के रूप में डाला जाता है, जो तीव्रता से नाइट्रेट में परिवर्तित हो जाता है। नाइट्रेट पौधे द्वारा समावेशित हो जाता है, हालांकि, इसका काफी अनुपात में निक्षालन हो जाता है, धरती के नीचे जल में रिस जाता है या वायुमंडल में  $M_2$  गैस के रूप में वापिस आ जाता है।

कथन II : स्यूडोमोनसडिनाइट्रिफिकन, पैराकोकसडिनाइट्रिफिकन तथा थायोबैसिलस डिनाइट्रिफिकन जैसे बैक्टीरिया विनाइट्रीकरण की प्रक्रिया में शामिल होते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) कथन I और II दोनों सत्य हैं
- (2) कथन I और II दोनों असत्य हैं
- (3) कथन I सत्य है, लेकिन कथन II असत्य है
- (4) कथन I असत्य है, लेकिन कथन II सत्य है

**Options :**

92090644281. 1
92090644282. 2
92090644283. 3
92090644284. 4

**Question Number : 72 Question Id : 92090611211 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Assertion A :** *Azolla*, a tiny aquatic fern is used as biofertilizer in rice cultivation.

**Reasons R :** *Azolla* form symbiotic association with  $N_2$  – fixing cyanobacterium *Anabaena azollae*.

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

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

**Options :**

92090644285. 1
92090644286. 2
92090644287. 3



92090644288. 4

**Question Number : 72 Question Id : 92090611211 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं:

कथन I : अज़ोला एक लघु जलीय पर्णांग है जिसका उपयोग धान की खेती में एक जैवउर्वरक के रूप में किया जाता है।

कथन II :  $N_2$  निर्धारण करने वाले सायनोबैक्टीरियम एनाबीना एज़ोली के साथ एज़ोला एक सहजीवी संबद्धता बनाता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) कथन I और II दोनों सत्य हैं
- (2) कथन I और II दोनों असत्य हैं
- (3) कथन I सत्य है, लेकिन कथन II असत्य है
- (4) कथन I असत्य है, लेकिन कथन II सत्य है

**Options :**

92090644285. 1

92090644286. 2

92090644287. 3

92090644288. 4

**Question Number : 73 Question Id : 92090611212 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Purine and pyrimidine biosynthesis is critical for all cells.

Reasons R : Purine and pyrimidine molecules synthesize ATP, several cofactors, and other important cell components.

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

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

**Options :**

- 92090644289. 1
- 92090644290. 2
- 92090644291. 3
- 92090644292. 4

**Question Number : 73 Question Id : 92090611212 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : प्यूरीन तथा पिरिमिडीन का जैवसंश्लेषण सभी कोशिकाओं के लिए अनिवार्य है।

कारण R : प्यूरीन तथा पिरिमिडिन अणु ए.टी.पी. परिवेषक सहकारक तथा अन्य महत्वपूर्ण कोशिका घटकों को संश्लेषित करते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

- 92090644289. 1
- 92090644290. 2

92090644291. 3

92090644292. 4

**Question Number : 74 Question Id : 92090611213 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : The monomers of DNA are called deoxyribonucleotides.

Reasons R : The nitrogenous base in DNA is deoxy.

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

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

**Options :**

92090644293. 1

92090644294. 2

92090644295. 3

92090644296. 4

**Question Number : 74 Question Id : 92090611213 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : डी.एन.ए. के एकलकों को डिऑक्सीराइबोन्यूक्लियोटाइड कहते हैं।

कारण R : डी.एन.ए. में नाइट्रोजनी क्षार डिऑक्सी है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644293. 1

92090644294. 2

92090644295. 3

92090644296. 4

**Question Number : 75 Question Id : 92090611214 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Coupled transcription and translation is possible in bacterial and archaeal cells.

Reasons R : In bacterial and archaeal cells, nuclear envelope does not separate the translation machinery from DNA.

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

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

**Options :**

92090644297. 1

92090644298. 2

92090644299. 3

92090644300. 4

**Question Number : 75 Question Id : 92090611214 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : जीवाणुज तथा आर्की कोशिकाओं में संयोजित अनुलेखन और स्थानांतरण संभव है।

कारण R : जीवाणुज तथा आर्की कोशिकाओं में, नाभिकीय आवण डी.एन.ए. में से स्थानांतरण मशीनरी को पृथक नहीं करता।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644297. 1

92090644298. 2

92090644299. 3

92090644300. 4

**Question Number : 76 Question Id : 92090611215 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : The diauxic growth curve of *E. coli* is obtained when grown with a mixture of glucose and lactose

Reasons R : The enzymes for lactose catabolism are constitutive.

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

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

**Options :**

- 92090644301. 1
- 92090644302. 2
- 92090644303. 3
- 92090644304. 4

**Question Number : 76 Question Id : 92090611215 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : ई. कोली के डाइऑक्सिकवृद्धि वक्र को ग्लूकोज़ तथा लैक्टोज़ के मिश्रण के साथ विकसिज किया जाता है।

कारण R : लैक्टोस अपचय के लिए एंज़ाइम संघटित होते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

- 92090644301. 1
- 92090644302. 2
- 92090644303. 3
- 92090644304. 4

**Question Number : 77 Question Id : 92090611216 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : The transfer of genes from parents to progeny is called vertical gene transfer.

Reasons R : The genes from one independent bacterial cell can be transferred to another bacterial cell.

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

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

**Options :**

- 92090644305. 1
- 92090644306. 2
- 92090644307. 3
- 92090644308. 4

**Question Number : 77 Question Id : 92090611216 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : माता-पिता से संतति में जीन का ऊर्ध्वाधर जीन हस्तांतरण कहलाता है।

कारण R : जीवाणु कोशिका से जीवाणुकोशिका किसी स्वतंत्र, अन्य में जीन का स्थानांतरण किया जा सकता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

- 92090644305. 1
- 92090644306. 2
- 92090644307. 3
- 92090644308. 4

**Question Number : 78 Question Id : 92090611217 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Nitrate is produced during nitrogen cycle.

Reasons R : The microorganisms use nitrate as a terminal electron acceptor during anaerobic respiration.

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

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

**Options :**

- 92090644309. 1
- 92090644310. 2
- 92090644311. 3
- 92090644312. 4

**Question Number : 78 Question Id : 92090611217 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : नाइट्रोजन चक्रण में नाइट्रोजन का उत्पादन होता है।

कारण R : अवायवीय श्वसन में सूक्ष्मजीवी नाइट्रेट का उपयोग एक अंतिम इलेक्ट्रॉन ग्राही की तरह करते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है



**Options :**

- 92090644309. 1
- 92090644310. 2
- 92090644311. 3
- 92090644312. 4

**Question Number : 79 Question Id : 92090611218 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Taxol is used in chemotherapy against cancer.

Reasons R : Taxol preferentially kills tumor cells.

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

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

**Options :**

- 92090644313. 1
- 92090644314. 2
- 92090644315. 3
- 92090644316. 4

**Question Number : 79 Question Id : 92090611218 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : कैसर के विरुद्ध की जाने वाली रसोचिकित्सा में टेक्सॉल का उपयोग किया जाता है।

कारण R : टेक्सॉल अधिमान्यतः अर्बुद कोशिकाओं को नष्ट कर देता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644313. 1

92090644314. 2

92090644315. 3

92090644316. 4

**Question Number : 80 Question Id : 92090611219 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Sickle-cell anemia (HbS) disease has the most common form of abnormal hemoglobin.

Reasons R : Erythrocytes of Sickle-cell anemia patients adopt a sickle shape (crescent-like) at low oxygen concentration.

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

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

**Options :**

92090644317. 1

92090644318. 2

92090644319. 3

92090644320. 4

**Question Number : 80 Question Id : 92090611219 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : दात्र-कोशिका अरक्तता (Hbs) असामान्य हीमोग्लोबिन का सबसे अधिक पात्रा जाने वाला रूप है।

कारण R : दात्र-कोशिका अरक्ता वाले रोगियों को लाल रक्त कणिकाएँ दात्री के आकार (चन्द्राकार की तरह) को ग्रहण कर लेती हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644317. 1

92090644318. 2

92090644319. 3

92090644320. 4

**Question Number : 81 Question Id : 92090611220 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : DNA fragments with sticky ends are particularly useful for recombinant DNA experiments.

Reasons R : The single-stranded sticky ends can easily pair with any other DNA fragment having complementary sticky ends.

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

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

**Options :**

92090644321. 1

92090644322. 2

92090644323. 3

92090644324. 4

**Question Number : 81 Question Id : 92090611220 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : चिपचिपे सिरों वाले डी.एन.ए. खंड विशेष रूप से पुनर्संयोजित डी.एन.ए. प्रयोगों के लिए प्रभावकारी होते हैं।

कारण R : डी.एन.ए.के एकतंतु वाले चिपचिपे सिरे डी.एन.ए. के अन्य खंड जिनके दूरक चिपचिपे सिरे हैं, के साथ आसानी से जोड़ा बनाते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644321. 1

92090644322. 2

92090644323. 3

92090644324. 4

**Question Number : 82 Question Id : 92090611221 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : All eluents for use in HPLC systems must be specially purified.

Reasons R : The traces of impurities in eluents cannot affect the column and interfere with the detection system.

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

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

**Options :**

92090644325. 1

92090644326. 2

92090644327. 3

92090644328. 4

**Question Number : 82 Question Id : 92090611221 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : एच.पी.एल.सी. प्रणाली में उपयोग करने के लिए सभी शालकों को विशेष रूप से शोधित किया जाना चाहिए।

कारण R : शालकों में अयुद्धियों अवशेष, स्तंभ प्रभावित नहीं करते और संसूचना प्रणाली में व्युत्करण नहीं करते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644325. 1
92090644326. 2
92090644327. 3
92090644328. 4

**Question Number : 83 Question Id : 92090611222 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Type II restriction endonucleases recognize and cleave DNA within particular sequences of four to eight nucleotides referred to as palindromic sequences.

Reasons R : The palindromic sequence is similar to words that read the same backward as forward.

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

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

**Options :**

92090644329. 1
92090644330. 2
92090644331. 3
92090644332. 4

**Question Number : 83 Question Id : 92090611222 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : टाइप II बंध एंडोन्यूक्लियेसिस, डी.एन.ए. को विशेष क्रमों, चार से आठ न्यूक्लियोटाइड क्रम जिन्हें विलोमपदीय क्रम की तरह संदर्भित किया जाता है, को पहचानता तथा विभाजित करता है।

कारण R : विलोमपदीय क्रम उसी प्रकार है जैसे शब्दों को आगे से व पीछे से बिलकुल एक सा पढ़ा जात है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644329. 1

92090644330. 2

92090644331. 3

92090644332. 4

**Question Number : 84 Question Id : 92090611223 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Silent mutations change the nucleotide sequence of a codon but do not change the amino acid encoded by the codon.

Reasons R : A single base substitution can change a codon for one amino acid into a codon for another.

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

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

**Options :**

- 92090644333. 1
- 92090644334. 2
- 92090644335. 3
- 92090644336. 4

**Question Number : 84 Question Id : 92090611223 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : प्रच्छन्न उत्परिवर्तन प्रकृत के न्यूक्लियोटाइड क्रम को बदल देते हैं किंतु प्रकृत द्वारा कूटलेखित अमीनों एसिड को नहीं बदलते।

कारण R : एकाधार प्रतिस्थापन, एक अमीनो एसिड के लिए किसी प्रकट की दूसरे प्रकृत में अन्य अमीनो एसिड के लिए परिवर्तित कर देता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**



92090644333. 1  
92090644334. 2  
92090644335. 3  
92090644336. 4

**Question Number : 85 Question Id : 92090611224 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Assertion A :** Some gram-positive bacteria form endospores.

**Reasons R :** Endospore does not contain dipicolinic acid.

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

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

**Options :**

92090644337. 1  
92090644338. 2  
92090644339. 3  
92090644340. 4

**Question Number : 85 Question Id : 92090611224 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में,

अभिकथन A : कुछ ग्राम-धनात्मक जीवाणु युग्मकोद्भिद बनाते हैं।

कारण R : युग्मकोद्भिद में डिपिकोलिनिक अम्ल नहीं होता।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644337. 1  
92090644338. 2  
92090644339. 3  
92090644340. 4

**Question Number : 86 Question Id : 92090611225 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Given below are two statements :

Statement I : Microorganisms are defined as those organisms and acellular biological entities too small to be seen clearly by the unaided eye.

Statement II : All organisms with Prokaryotic cell structures were placed in Monera.

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

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

**Options :**

92090644341. 1  
92090644342. 2  
92090644343. 3  
92090644344. 4

**Question Number : 86 Question Id : 92090611225 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : सूक्ष्मजीवी वे जीव और एककोशिकीय जैविक सत्ताएँ हैं जो इतनी सूक्ष्म हैं जिन्हें बिना कोई सहायता प्राप्त किये आँखों द्वारा स्पष्ट रूप से देखा नहीं जा सकता।

कारण R : प्रोकेरियोट कोशिका संरचना वाले सभी जीवों को मोनेरा के अंतर्गत स्थान दिया गया।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644341. 1
92090644342. 2
92090644343. 3
92090644344. 4

**Question Number : 87 Question Id : 92090611226 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Given below are two statements :

Statement I : Algae are photosynthetic.

Statement II : Slime molds are protists that behave like protozoa in one stage of their life cycle but like fungi in another.

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

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

**Options :**

92090644345. 1
92090644346. 2
92090644347. 3

92090644348. 4

**Question Number : 87 Question Id : 92090611226 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : शैवाल प्रकाशसंश्लेषण करते हैं।

कारण R : स्लाइम मोल्ड ऐसे प्रजीव हैं जो अपने जीवन चक्र की एक अवस्था में प्रोटोज़ोआ की तरह व्यवहार करते हैं किंतु दूसरी अवस्था में ये कबक की तरह व्यवहार करते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

**Options :**

92090644345. 1

92090644346. 2

92090644347. 3

92090644348. 4

**Question Number : 88 Question Id : 92090611227 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Given below are two statements :

Statement I : Prokaryotes possess three cytoskeletal elements: actin filaments, microtubules, and intermediate filaments.

Statement II : The S-layer has a pattern something like floor tiles and is composed of protein or glycoprotein.

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

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

**Options :**

92090644349. 1  
92090644350. 2  
92090644351. 3  
92090644352. 4

**Question Number : 88 Question Id : 92090611227 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं:

कथन I : प्रोकेरियोट में तीन सायटोपंजर तत्व पाए जाते हैं : एक्टिन तंतु, सूक्ष्मनलिकाएँ, और मध्यवर्ती तंतु।

कथन II : S-परत का डिज़ाइन कुछ-कुछ फर्श की टाइलों जैसा होता है और ये प्रोटीन या ग्लाइकोप्रोटीन से बनी होती है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) कथन I और II दोनों सत्य हैं
- (2) कथन I और II दोनों असत्य हैं
- (3) कथन I सत्य है, लेकिन कथन II असत्य है
- (4) कथन I असत्य है, लेकिन कथन II सत्य है

**Options :**

92090644349. 1  
92090644350. 2

92090644351. 3

92090644352. 4

**Question Number : 89 Question Id : 92090611228 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Assertion A :** Estuaries can be defined as meeting place of river with ocean.

**Reasons R :** Estuaries support minimum diversity of algae.

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

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

**Options :**

92090644353. 1

92090644354. 2

92090644355. 3

92090644356. 4

**Question Number : 89 Question Id : 92090611228 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए हैं:

कथन I : नदी तथा महासागर के मिलने को स्थान को ज्वारनदमुख कहते हैं।

कथन II : ज्वारनदमुख शैवाल की निम्नतम विभिन्नता बल देते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) कथन I और II दोनों सत्य हैं
- (2) कथन I और II दोनों असत्य हैं
- (3) कथन I सत्य है, लेकिन कथन II असत्य है
- (4) कथन I असत्य है, लेकिन कथन II सत्य है

**Options :**

92090644353. 1

92090644354. 2

92090644355. 3

**Question Number : 90 Question Id : 92090611229 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Assertion A :** Thermal vents are found on the floor of ocean. Temperature of ocean floor is zero degree centigrade.

**Reasons R :** Thermal vents support the growth of thermophilic bacteria.

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

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

**Options :**

- 92090644357. 1
- 92090644358. 2
- 92090644359. 3
- 92090644360. 4

**Question Number : 90 Question Id : 92090611229 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

नीचे दो कथन दिए गए है:

कथन I : महासागरों के तल पर द्वार पाए जाते हैं। महासागर के तल पर तापमान 0° सेंटीग्रेड होता है।

कथन II : ऊष्मा द्वार तापरागी जीवाणु की वृद्धि को बलदेते हैं।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) कथन I और II दोनों सत्य है
- (2) कथन I और II दोनों असत्य है
- (3) कथन I सत्य है, लेकिन कथन II असत्य है
- (4) कथन I असत्य है, लेकिन कथन II सत्य है

**Options :**

- 92090644357. 1
- 92090644358. 2

92090644359. 3

92090644360. 4

**Question Number : 91 Question Id : 92090611230 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

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

Assertion A : Peptidoglycan is a particularly effective target for antimicrobial agents.

Reasons R : Peptidoglycan is an important component of bacteria cell wall structure and function and is absent in animal cells.

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

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

**Options :**

92090644361. 1

92090644362. 2

92090644363. 3

92090644364. 4

**Question Number : 91 Question Id : 92090611230 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**



नीचे दो कथन दिए गए हैं: एक अभिकथन (Assertion A) के रूप में लिखित है तो दूसरा उसके कारण (Reason R) के रूप में;

अभिकथन A : पैप्टीडोग्लाइकेन प्रतिसूक्ष्मजीवी कारकों के लिए विशेषरूप से एक प्रथावकारी लक्ष्य होता है।

कारण R : पैप्टीडोग्लाइकेन जीवाणुज कोशिका भित्ति संरचना और कार्य का एक महत्वपूर्ण अंग होता है तथा यह प्राणी कोशिकाओं में नहीं पाया जाता।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए

- (1) A और R दोनों सही हैं और R, A की सही व्याख्या है
- (2) A और R दोनों सही हैं, लेकिन R, A की सही व्याख्या नहीं है
- (3) A सही है, लेकिन R सही नहीं है
- (4) A सही नहीं है, लेकिन R सही है

**Options :**

92090644361. 1
92090644362. 2
92090644363. 3
92090644364. 4

**Question Number : 92 Question Id : 92090611231 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II :**

List I	List II
(A) Cyanobacterial cell wall	(I) Reproductive structure
(B) Akinetes are perennating structures	(II) Muramic acid
(C) Heterocyst	(III) Survive cold stress
(D) Hormogonia	(IV) N <sub>2</sub> -fixation

Choose the correct answer from the options given below :

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

**Options :**

92090644365. 1
92090644366. 2
92090644367. 3
92090644368. 4

**Question Number : 92 Question Id : 92090611231 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची -II
(A) सायनोबैक्टीरिया की कोशिका भित्ति	(I) प्रजनन संरचनाएँ
(B) एकीनीट चिरकालिक संरचनाएँ हैं	(II) म्यूरैमिक अम्ल है।
(C) हेटेरोसिस्ट	(III) शीत प्रभाव में टिका रहता है।
(D) होस्मोगोनिया	(IV) निर्धारण

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644365. 1
92090644366. 2
92090644367. 3
92090644368. 4

**Question Number : 93 Question Id : 92090611232 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II :

List I	List II
(A) Firmicutes with low GC content	(I) <i>Chromatium</i>
(B) Firmicutes with high GC content	(II) <i>Burkholderia</i>
(C) Proteobacteria	(III) <i>Bacillus</i>
(D) Photosynthetic bacteria	(IV) <i>Actinobacteria</i>

Choose the correct answer from the options given below :

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

**Options :**

92090644369. 1  
92090644370. 2  
92090644371. 3  
92090644372. 4

**Question Number : 93 Question Id : 92090611232 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II
(A) निम्न GC मात्रा वाले फर्मीक्यूट	(I) क्रोमेटियम
(B) उच्च GC मात्रा वाले फर्मीक्यूट	(II) बर्खोलडेरिया
(C) प्रोटियोबैक्टीरिया	(III) बैसिलस
(D) प्रकाशसंश्लेषित जीवाणु	(IV) एक्टीनोबैक्टीरिया

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644369. 1  
92090644370. 2

92090644371. 3

92090644372. 4

**Question Number : 94 Question Id : 92090611233 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II :

List I	List II
(A) <i>Azotobacter</i>	(I) Nitrification
(B) <i>Nitrosomonas</i>	(II) Fern
(C) <i>Thiobacillus denitrificans</i>	(III) Free-living N <sub>2</sub> fixing bacteria
(D) <i>Azolla</i>	(IV) Denitrification

Choose the correct answer from the options given below :

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

**Options :**

92090644373. 1

92090644374. 2

92090644375. 3

92090644376. 4

**Question Number : 94 Question Id : 92090611233 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II
(A) एज़ोटोबैक्टर	(I) नाइट्रीकरण
(B) नाइट्रोसोमोनस	(II) पर्णांग
(C) थायोबैसिलस	(III) निर्धारण जीवाणु की स्वतंत्र सक्रियता
(D) अज़ोला	(IV) विनाइट्रीकरण

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

- 92090644373. 1
- 92090644374. 2
- 92090644375. 3
- 92090644376. 4

**Question Number : 95 Question Id : 92090611234 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II :**

List I	List II
(A) Littoral Zone	(I) Open water farther from shore
(B) Limnetic Zone	(II) Closest to the shore
(C) Profundal Zone	(III) Below the limnetic Zone
(D) Benthic Zone	(IV) Bottom of the lake

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

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

**Options :**

- 92090644377. 1
- 92090644378. 2
- 92090644379. 3
- 92090644380. 4

**Question Number : 95 Question Id : 92090611234 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II
(A) वेलांचली मंडल	(I) समुद्रतट से दूर खुला जल
(B) सरोवरी जीव प्रदेश	(II) समुद्रतट के सबसे पास
(C) प्रोफंडल मंडल	(III) सरोवरी जीव प्रदेश के नीचे
(D) नितलस्थ मंडल	(IV) झील की तलहटी

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644377. 1  
92090644378. 2  
92090644379. 3  
92090644380. 4

**Question Number : 96 Question Id : 92090611235 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II :**

List I	List II
(A) Air Quality Index (AQI) = 51-100	(I) Poor air quality
(B) Air Quality Index (AQI) = 101-200	(II) Satisfactory air quality
(C) Air Quality India (AQI) = 201-300	(III) Moderate air quality
(D) Air Quality India (AQI) = 301-400	(IV) Very poor air quality

Choose the correct answer from the options given below :

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

**Options :**

92090644381. 1  
92090644382. 2

92090644383. 3

92090644384. 4

**Question Number : 96 Question Id : 92090611235 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I

सूची-II

- |  |                              |
|--|------------------------------|
| (A) वायुगुणवत्ता सूचकांक (AQ1) = 51-100  | (I) निम्न वायु गुणवत्ता      |
| (B) वायुगुणवत्ता सूचकांक (AQ1) = 101-200 | (II) संतोषप्रद वायु गुणवत्ता |
| (C) वायुगुणवत्ता सूचकांक (AQ1) = 201-300 | (III) मध्यम वायु गुणवत्ता    |
| (D) वायुगुणवत्ता सूचकांक (AQ1) = 201-400 | (IV) अति निम्न वायु गुणवत्ता |

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644381. 1

92090644382. 2

92090644383. 3

92090644384. 4

**Question Number : 97 Question Id : 92090611236 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

Match List I with List II :

List I

List II

- |                  |             |
|------------------|-------------|
| (A) Commensalism | (I) (+,+)   |
| (B) Mutualism    | (II) (+,0)  |
| (C) Parasitism   | (III) (0,0) |
| (D) Neutralism   | (IV) (+,-)  |

Choose the correct answer from the options given below :

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

**Options :**

92090644385. 1  
92090644386. 2  
92090644387. 3  
92090644388. 4

**Question Number : 97 Question Id : 92090611236 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II (अंतःक्रिया)
(A) सहभोजिता	(I) (+, +)
(B) पारस्परिकता	(II) (+, 0)
(C) परजीविता	(III) (0, 0)
(D) उदासीनता/निष्प्रभाविता	(IV) (+, -)

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644385. 1  
92090644386. 2  
92090644387. 3  
92090644388. 4

**Question Number : 98 Question Id : 92090611237 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**



Match List I with List II :

List I	List II
(A) Phototropism	(I) Stimulus is a touch
(B) Thigmotropism	(II) Stimulus is gravity
(C) Gravitropism	(III) Stimulus is light
(D) Seismonasty	(IV) Stimulus is shaking

Choose the correct answer from the options given below :

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

**Options :**

92090644389. 1  
92090644390. 2  
92090644391. 3  
92090644392. 4

**Question Number : 98 Question Id : 92090611237 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II
(A) प्रकाशानुवर्तन	(I) स्पर्श एक उद्दीपक है।
(B) स्पर्शानुवर्तन	(II) गुरुत्व एक उद्दीपक है।
(C) गुरुत्वानुवर्तन	(III) प्रकाश उद्दीपक है।
(D) कंपनाकुंचन	(IV) कंपन उद्दीपक है।

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644389. 1  
92090644390. 2  
92090644391. 3  
92090644392. 4

Question Number : 99 Question Id : 92090611238 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Match List I with List II :

List I	List II
(A) Xerosere	(I) Community formation in water
(B) Hydrosere	(II) Community formation in dry and arid area
(C) Lithosere	(III) Community formation on sand
(D) Psammosere	(IV) Community formation on rock

Choose the correct answer from the options given below :

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

Options :

92090644393. 1  
92090644394. 2  
92090644395. 3  
92090644396. 4

Question Number : 99 Question Id : 92090611238 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची-II
(A) मरुकमक	(I) जल में समुदाय विरचन
(B) जलकमक	(II) मूखे तथा शुष्क क्षेत्र में समुदाय विरचन
(C) शैल कमक	(III) रेत में समुदाय विरचन
(D) बालुकीय कमक	(IV) चट्टानों पर समुदाय विरचन

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

- 92090644393. 1
- 92090644394. 2
- 92090644395. 3
- 92090644396. 4

**Question Number : 100 Question Id : 92090611239 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

**Match List I with List II :**

List I	List II
(A) mRNA	(I) Gene regulation
(B) tRNA	(II) Peptidyl transferase activity
(C) rRNA	(III) Adaptor for amino acid
(D) miRNA	(IV) Messenger for gene expression

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

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

**Options :**

- 92090644397. 1
- 92090644398. 2
- 92090644399. 3
- 92090644400. 4

**Question Number : 100 Question Id : 92090611239 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1**

सूची I के साथ सूची II का मिलान कीजिए

सूची-I	सूची -II
(A) m RNA	(I) जीन का विनियमन
(B) t RNA	(II) पैप्टीडाइल की ट्रॉन्स्फेरेस गतिविधि
(C) r RNA	(III) अमीनो अम्ल का अनुकूलक
(D) miRNA	(IV) जीन अभिव्यक्ति का संदेशवाहक

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

**Options :**

92090644397. 1
92090644398. 2
92090644399. 3
92090644400. 4