

National Testing Agency

Question Paper Name :	Life Science Eng 06th June 2023 Shift 3
Subject Name :	Life Science Eng
Creation Date :	2023-06-06 22:56:23
Duration :	120
Total Marks :	400
Display Marks:	Yes

Life Science

Group Number :	1
Group Id :	92090655
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	400
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Part A

Section Id :	920906109
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	21
Number of Questions to be attempted :	21
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	920906173
Question Shuffling Allowed :	No
Is Section Default? :	null

**Question Id : 9209065463 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 passage and answer the next five questions by choosing correct option.

Sam path G.

Podcast journalism is a recent phenomenon. Most, if not all, of them would have received no formal training in it. As one of the hosts of InFocus, The Hindu's flagship podcast series on current affairs, I've had people frequently ask me how I go about doing things. When I try to explain, often the first thing I hear is, 'Oh, so you do audio interviews.' Well, not exactly.

There are different kinds of podcasts, and the interview - with a subject expert. It is also true it is done exclusively in audio format - there is no video element and the transcript doesn't published in print or online. But journalistically speaking, the podcast 'interview' is quite different from the traditional 'media' interview as we know and practice it.

First, the two have different objectives. The purpose of the media interview is to generate compelling copy - and perhaps a sensational headline - for the publication. The objective of InFocus is to explain or explore a complicated or interesting news development.

Second, unlike the traditional interview, the podcast is a collaboration between interviewer and interviewee. I did Nuri areas or interview before I did a single podcast. In all of them, I just had to show up and start shooting questions while a Dictaphone recorded the answers. I did not have to do anything other than try and ensure that my questions were answered without evasiveness or prevarication. It was a slightly adversarial relationship though one always tried to keep things cordial. But a podcast interview is a partnership between the journalist (host), and in the case of InFocus, the expert (guest). We share the common objective of decoding a complex subject, which brings us to the third difference: I would tell the guest in advance about my line of questioning so she can prepare. I would never do this in a traditional interview.

Fourth, in a podcast, the journalist is also a moderator. Among other things, it is my job quickly create a relaxed environment so that the guest (who may have never done a podcast before) is at ease, introduce the topic, steer the conversation smoothly from sub-theme to subtheme with appropriate transitions, and tie it all together. Interview, when you have asked your last question, you don't summaries - you switch off the Dictaphone and take your leave.

Explainer podcasts such as InFocus also differ from media interview with regard to the magnitude of research involved. Most often, a journalist typically interview people from his beat or in connection with his beat. So, there is already familiarity with the interviewee and/or the subject of the questions. If research is needed, it is specific to the news context (say, an election) or the person (if it's for a profile). But in a podcast series where each episode is on a completely different topic, the interview calls for three different levels of research: one, to familiarize yourself with the subject along with the latest developments so as to come up with engaging questions; two, search for the most appropriate (and available) expert; and three, to summarize yourself with the guest's work and special interests.

Finally, podcast interviews have a whole new tech dimension to them - using the right microphone, mixing separate audio tracks, etc. - that is missing from the traditional interview. Overall though the podcast is more demanding, it is also in some ways less stressful and uniquely rewarding insofar as it's a collaborative exercise that orchestrates a convivial, intimate space between three curious mind - the host, the guest and the listener.

Sub questions

Question Number : 1 Question Id : 9209065464 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 podcast Journalism essentially -

- (A) explores complicated issues
- (B) generates a compelling story
- (C) puts the interviewer in an adversarial position.
- (D) puits the interviewer in an adversarial position.
- (E) demandas an indepth research.

Choses the correct answer from the options Gien Bellow :

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

Options :

- 92090621601. 1
- 92090621602. 2
- 92090621603. 3
- 92090621604. 4

Question Number : 2 Question Id : 9209065465 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

Another term used for Podcast Journalism is the passage is:

- (1) Orchestra
- (2) Flagship
- (3) Media
- (4) Explainer

Options :

- 92090621605. 1
- 92090621606. 2
- 92090621607. 3
- 92090621608. 4

Question Number : 3 Question Id : 9209065466 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 podcast Journalist is essentially a musician as he

- (1) write a piece of music for his quests
- (2) coordinates with tech department
- (3) creates happy space for his quests
- (4) arranges all aspects in harmonium manner

Options :

92090621609. 1
92090621610. 2
92090621611. 3
92090621612. 4

Question Number : 4 Question Id : 9209065467 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 use of the word 'Beat' in list with its function in list II:

- | List I | List II |
|--|---------------|
| (A) A Journalist typically interviews people from his <u>best.....</u> " | (I) Adjective |
| (B) After working for four hours is the gander the dead <u>beat</u> . | (II) Verb |
| (C) The steady <u>beat</u> of drum early morning annoying | (III) Noun |
| (D) She was <u>beating</u> the dust out of the carpet. | (IV) Noun |

Choose the correct answer from the options given below:

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

Options :

92090621613. 1
92090621614. 2
92090621615. 3
92090621616. 4

Question Number : 5 Question Id : 9209065468 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) Prevarication	(I) Involving conflict or opposition
(B) Adversarial	(II) To arrange carefully for desired result
(C) Corridor	(III) To speak in a misleading way
(D) Orchestrate	(IV) Careful and friendly

Choose the correct answer from the options given below:

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

Options :

- 92090621617. 1
- 92090621618. 2
- 92090621619. 3
- 92090621620. 4

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Question Number : 1 Question Id : 9209065464 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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- (4) (B), (C), (D)

Options :

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- 92090621603. 3
- 92090621604. 4

Question Number : 2 Question Id : 9209065465 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Options :

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- 92090621606. 2
- 92090621607. 3
- 92090621608. 4

Question Number : 3 Question Id : 9209065466 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 podcast Journalist is essentially a musician as he

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- (2) coordinates with tech department
- (3) creates happy space for his quests
- (4) arranges all aspects in harmonium manner

Options :

92090621609. 1
92090621610. 2
92090621611. 3
92090621612. 4

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Match the use of the word 'Beat' in list with its function in list II:

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| (C) The steady <u>beat</u> of drum early morning annoying | (III) Noun |
| (D) She was <u>beating</u> the dust out of the carpet. | (IV) Noun |

Choose the correct answer from the options given below:

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

Options :

92090621613. 1
92090621614. 2
92090621615. 3
92090621616. 4

Question Number : 5 Question Id : 9209065468 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) Prevarication	(I) Involving conflict or opposition
(B) Adversarial	(II) To arrange carefully for desired result
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- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)

Options :

- 92090621617. 1
- 92090621618. 2
- 92090621619. 3
- 92090621620. 4

Sub-Section Number :

2

Sub-Section Id :

920906174

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 6 Question Id : 9209065469 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

When a film is a hit, the producer

- (1) Goes for the Jugular
- (2) Palls someone's leg
- (3) Laughs all the way to the bank
- (4) Be in two minds

Options :

- 92090621621. 1
- 92090621622. 2
- 92090621623. 3
- 92090621624. 4

Question Number : 6 Question Id : 9209065469 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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Options :

- 92090621621. 1
- 92090621622. 2
- 92090621623. 3
- 92090621624. 4

Question Number : 7 Question Id : 9209065470 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

Going to someone very humbly, as it legging as _____ going to someone.

- (1) in cahoots
- (2) up in arms
- (3) cap in hand
- (4) with upon arms

Options :

- 92090621625. 1
- 92090621626. 2
- 92090621627. 3
- 92090621628. 4

Question Number : 7 Question Id : 9209065470 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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- (4) with upon arms

Options :

- 92090621625. 1

92090621626. 2

92090621627. 3

92090621628. 4

Question Number : 8 Question Id : 9209065471 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

Someone is "at the end of his/her tether". They are (Choose the correct answer):

- (1) no longer involved in the situation
- (2) in a serious situation which will have unpleasant consequences.
- (3) desperate; Unable to deal with a difficult situation
- (4) being cheated or decided by others.

Options :

92090621629. 1

92090621630. 2

92090621631. 3

92090621632. 4

Question Number : 8 Question Id : 9209065471 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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Options :

92090621629. 1

92090621630. 2

92090621631. 3

92090621632. 4

Question Number : 9 Question Id : 9209065472 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 instrument used for breathing while swimming under water :

- | | |
|------------|--------------|
| (1) Saddle | (2) Scarrold |
| (3) Seam | (4) Scuba |

Options :

- 92090621633. 1
- 92090621634. 2
- 92090621635. 3
- 92090621636. 4

Question Number : 9 Question Id : 9209065472 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 instrument used for breathing while swimming under water :

- | | |
|------------|--------------|
| (1) Saddle | (2) Scarrold |
| (3) Seam | (4) Scuba |

Options :

- 92090621633. 1
- 92090621634. 2
- 92090621635. 3
- 92090621636. 4

Question Number : 10 Question Id : 9209065473 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

Chose the correctly spelt word from the given options:

- | | |
|---------------|---------------|
| (1) BAALISTIC | (2) BALESTIC |
| (3) BALISTSIC | (4) BALLISTIC |

Options :

- 92090621637. 1
- 92090621638. 2
- 92090621639. 3
- 92090621640. 4

Question Number : 10 Question Id : 9209065473 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

Chose the correctly spelt word from the given options:

- | | |
|---------------|---------------|
| (1) BAALISTIC | (2) BALESTIC |
| (3) BALISTSIC | (4) BALLISTIC |

Options :

- 92090621637. 1
- 92090621638. 2
- 92090621639. 3
- 92090621640. 4

Question Number : 11 Question Id : 9209065474 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

Ravi and Rohan invested ₹18,000 and ₹ 72,000 respectively in a business. Find the ratio of these shares in the Profits.

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

Options :

- 92090621641. 1
- 92090621642. 2
- 92090621643. 3
- 92090621644. 4

Question Number : 11 Question Id : 9209065474 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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- | | |
|---------|---------|
| (1) 1:2 | (2) 1:4 |
| (3) 2:3 | (4) 3:5 |

Options :

- 92090621641. 1
- 92090621642. 2
- 92090621643. 3

92090621644. 4

Question Number : 12 Question Id : 9209065475 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 the circumference of a circle is equal to the perimeter of an equilateral triangle, then the ratio of their area is:

- (1) $\sqrt{3} : 2\pi$ (2) $\pi : 2\sqrt{3}$
(3) $2\pi : \sqrt{3}$ (4) $3\sqrt{3} : \pi$

Options :

92090621645. 1
92090621646. 2
92090621647. 3
92090621648. 4

Question Number : 12 Question Id : 9209065475 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 the circumference of a circle is equal to the perimeter of an equilateral triangle, then the ratio of their area is:

- (1) $\sqrt{3} : 2\pi$ (2) $\pi : 2\sqrt{3}$
(3) $2\pi : \sqrt{3}$ (4) $3\sqrt{3} : \pi$

Options :

92090621645. 1
92090621646. 2
92090621647. 3
92090621648. 4

Question Number : 13 Question Id : 9209065476 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

On simple interest a sum of ₹ 15,800 become ₹ 21725 in 5 years. What rate of interest per annum was paid?

- (1) 6% (2) 6.5%
(3) 7% (4) 7.5%

Options :

92090621649. 1
92090621650. 2
92090621651. 3
92090621652. 4

Question Number : 13 Question Id : 9209065476 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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Options :

92090621649. 1
92090621650. 2
92090621651. 3
92090621652. 4

Question Number : 14 Question Id : 9209065477 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 shop is having a sale. It sells a notebook marked at ₹50 at a discount of 12% and a pen marked at ₹ 30 at a discount of 15%. Shekhar bought 10 notebooks and 3 pens. How much did he save due to sale?

- (1) ₹ 165 (2) ₹ 105
(3) ₹ 78.50 (4) ₹ 73.50

Options :

92090621653. 1
92090621654. 2
92090621655. 3
92090621656. 4

Question Number : 14 Question Id : 9209065477 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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- | | |
|-------------|-------------|
| (1) ₹ 165 | (2) ₹ 105 |
| (3) ₹ 78.50 | (4) ₹ 73.50 |

Options :

- 92090621653. 1
- 92090621654. 2
- 92090621655. 3
- 92090621656. 4

Question Number : 15 Question Id : 9209065478 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

3 men and 4 women can earn ₹ 3,780 in 7 days. 11 men and 13 women can earn ₹ 15,040 in 8 days. How many days will 7 men and 9 women earn ₹ 12400

- | | |
|--------|--------|
| (1) 10 | (2) 20 |
| (3) 15 | (4) 25 |

Options :

- 92090621657. 1
- 92090621658. 2
- 92090621659. 3
- 92090621660. 4

Question Number : 15 Question Id : 9209065478 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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- | | |
|--------|--------|
| (1) 10 | (2) 20 |
| (3) 15 | (4) 25 |

Options :

- 92090621657. 1
- 92090621658. 2
- 92090621659. 3
- 92090621660. 4

Question Number : 16 Question Id : 9209065479 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 'Banana' is known as 'butter', butter is known as 'Soap', 'soup is known as 'honey', then which of the following will be used for washing clothes?

- | | |
|------------|------------|
| (1) Butter | (2) Ink |
| (3) Honey | (4) Banana |

Options :

- 92090621661. 1
- 92090621662. 2
- 92090621663. 3
- 92090621664. 4

Question Number : 16 Question Id : 9209065479 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 'Banana' is known as 'butter', butter is known as 'Soap', 'soup is known as 'honey', then which of the following will be used for washing clothes?

- | | |
|------------|------------|
| (1) Butter | (2) Ink |
| (3) Honey | (4) Banana |

Options :

- 92090621661. 1
- 92090621662. 2
- 92090621663. 3
- 92090621664. 4

Question Number : 17 Question Id : 9209065480 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 Kumar is the brother of Renu. Parsanna is the sister of Kumar. Tannu is the brother of Somya and Somya is the daughter of Renu what is the relationship between kumar and Tannu?

- | | |
|----------------------|----------------------|
| (1) Uncle and nephew | (2) Cousins |
| (3) Nephew and Aunt | (4) Brother - sister |

Options :

- 92090621665. 1
- 92090621666. 2
- 92090621667. 3
- 92090621668. 4

Question Number : 17 Question Id : 9209065480 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 Kumar is the brother of Renu. Parsanna is the sister of Kumar. Tannu is the brother of Somya and Somya is the daughter of Renu what is the relationship between kumar and Tannu?

- | | |
|----------------------|----------------------|
| (1) Uncle and nephew | (2) Cousins |
| (3) Nephew and Aunt | (4) Brother - sister |

Options :

- 92090621665. 1
- 92090621666. 2
- 92090621667. 3
- 92090621668. 4

Question Number : 18 Question Id : 9209065481 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

Answer the following Question on the basis of the given statement and conclusion.

Statement : Some bags are pockets

No pocket is a pouch

Conclusions I – No bag is a pouch.

II – Some bags are not pouch.

III – Some pockets are bags.

IV – No pocket is a bag

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

- (1) Only (I) follower
- (2) Only (II) and (III) follower
- (3) Only (I) and (III) follower
- (4) Only either (I) or (IV) follower

Options :

92090621669. 1

92090621670. 2

92090621671. 3

92090621672. 4

Question Number : 18 Question Id : 9209065481 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

Answer the following Question on the basis of the given statement and conclusion.

Statement : Some bags are pockets

No pocket is a pouch

Conclusions I – No bag is a pouch.

II – Some bags are not pouch.

III – Some pockets are bags.

IV – No pocket is a bag

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

- (1) Only (I) follower
- (2) Only (II) and (III) follower
- (3) Only (I) and (III) follower
- (4) Only either (I) or (IV) follower

Options :

92090621669. 1

92090621670. 2

92090621671. 3

92090621672. 4

Question Number : 19 Question Id : 9209065482 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 the following assumptions and decide which of the assumptions is implicit in the statement.

Statement : His recent investment in the shares of company 'XYZS' is only a gamble.

Assumption I. He may incur loss on his investment
II. He may gain from his investment.

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

- (1) If only assumption (I) is implicit
- (2) If only assumption (II) is implicit
- (3) If either (I) or (II) is implicit
- (4) If both (I) and (II) is implicit.

Options :

- 92090621673. 1
- 92090621674. 2
- 92090621675. 3
- 92090621676. 4

Question Number : 19 Question Id : 9209065482 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 the following assumptions and decide which of the assumptions is implicit in the statement.

Statement : His recent investment in the shares of company 'XYZS' is only a gamble.

Assumption I. He may incur loss on his investment
II. He may gain from his investment.

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

- (1) If only assumption (I) is implicit
- (2) If only assumption (II) is implicit
- (3) If either (I) or (II) is implicit
- (4) If both (I) and (II) is implicit.

Options :

- 92090621673. 1
- 92090621674. 2

92090621675. 3

92090621676. 4

Question Number : 20 Question Id : 9209065483 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

Find the next term of the series: 1, 3, 6, 18, 36, 108 ?

- | | |
|---------|---------|
| (1) 210 | (2) 212 |
| (3) 214 | (4) 216 |

Options :

92090621677. 1

92090621678. 2

92090621679. 3

92090621680. 4

Question Number : 20 Question Id : 9209065483 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

Find the next term of the series: 1, 3, 6, 18, 36, 108 ?

- | | |
|---------|---------|
| (1) 210 | (2) 212 |
| (3) 214 | (4) 216 |

Options :

92090621677. 1

92090621678. 2

92090621679. 3

92090621680. 4

Question Number : 21 Question Id : 9209065484 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

By which constitutional Amendment, Delhi was given a Legislative Assembly?

- | | |
|--------------------------------|--------------------------------|
| (1) 65 th Amendment | (2) 69 th Amendment |
| (3) 72 th Amendment | (4) 76 th Amendment |

Options :

92090621681. 1
92090621682. 2
92090621683. 3
92090621684. 4

Question Number : 21 Question Id : 9209065484 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

By which constitutional Amendment, Delhi was given a Legislative Assembly?

- (1) 65th Amendment (2) 69th Amendment
(3) 72th Amendment (4) 76th Amendment

Options :

92090621681. 1
92090621682. 2
92090621683. 3
92090621684. 4

Question Number : 22 Question Id : 9209065485 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
Upaveda of	Deals with
(A) Yajurveda	(I) Medicine
(B) Samaveda	(II) Art of warfare
(C) Atharvaveda	(III) Art and music
(D) Rigveda	(IV) Architecture

Choose the correct answer from the options given below:

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

Options :

92090621685. 1
92090621686. 2

92090621687. 3

92090621688. 4

Question Number : 22 Question Id : 9209065485 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
Upaveda of	Deals with
(A) Yajurveda	(I) Medicine
(B) Samaveda	(II) Art of warfare
(C) Atharvaveda	(III) Art and music
(D) Rigveda	(IV) Architecture

Choose the correct answer from the options given below:

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

Options :

92090621685. 1

92090621686. 2

92090621687. 3

92090621688. 4

Question Number : 23 Question Id : 9209065486 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 chemical name of laughing gas is _____

- | | |
|-----------------------|-------------------|
| (1) Nitrogen dioxide | (2) Nitric oxide |
| (3) Nitrogen peroxide | (4) Nitrous oxide |

Options :

92090621689. 1

92090621690. 2

92090621691. 3

92090621692. 4

Question Number : 23 Question Id : 9209065486 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 chemical name of laughing gas is _____

- | | |
|-----------------------|-------------------|
| (1) Nitrogen dioxide | (2) Nitric oxide |
| (3) Nitrogen peroxide | (4) Nitrous oxide |

Options :

- 92090621689. 1
- 92090621690. 2
- 92090621691. 3
- 92090621692. 4

Question Number : 24 Question Id : 9209065487 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 Governor of Reserve Bank of India in Jan 2023 was:

- | | |
|----------------------|---------------------|
| (1) Shashi Kanta Das | (2) Urjit Patel |
| (3) D. Subbaro | (4) Raghu ram Rajan |

Options :

- 92090621693. 1
- 92090621694. 2
- 92090621695. 3
- 92090621696. 4

Question Number : 24 Question Id : 9209065487 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 Governor of Reserve Bank of India in Jan 2023 was:

- | | |
|----------------------|---------------------|
| (1) Shashi Kanta Das | (2) Urjit Patel |
| (3) D. Subbaro | (4) Raghu ram Rajan |

Options :

- 92090621693. 1
- 92090621694. 2
- 92090621695. 3
- 92090621696. 4

Question Number : 25 Question Id : 9209065488 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 summer 2024 summer Olympic Games will be hosted by _____.

- (1) Tokyo (2) Los Angeles
(3) Paris (4) Rome

Options :

92090621697. 1
92090621698. 2
92090621699. 3
92090621700. 4

Question Number : 25 Question Id : 9209065488 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 summer 2024 summer Olympic Games will be hosted by _____.

- (1) Tokyo (2) Los Angeles
(3) Paris (4) Rome

Options :

92090621697. 1
92090621698. 2
92090621699. 3
92090621700. 4

Part B: Life Science

Section Id :	920906110
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 :	920906175

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 26 Question Id : 9209065489 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 radio isotope is used to label the 5' end of DNA or RNA?

- | | |
|---------------------|---------------------|
| (1) ^{32}S | (2) ^{32}p |
| (3) ^{14}C | (4) ^{12}C |

Options :

92090621701. 1

92090621702. 2

92090621703. 3

92090621704. 4

Question Number : 26 Question Id : 9209065489 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

डी एन ए अथवा आर एन ए के 5' छोर को नामपत्रित करने के लिए कौन से विकिरण समस्थानिक का प्रयोग किया जाता है?

- | | |
|---------------------|---------------------|
| (1) ^{32}S | (2) ^{32}p |
| (3) ^{14}C | (4) ^{12}C |

Options :

92090621701. 1

92090621702. 2

92090621703. 3

92090621704. 4

Question Number : 27 Question Id : 9209065490 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

Two-dimensional electrophoresis resolve the proteins on the basis of :

- | | |
|-----------------------------------|------------------------------|
| (1) Net mass and osmotic pressure | (2) Net viscosity and volume |
| (3) Net charge and mass | (4) Net charge and volume |

Options :

- 92090621705. 1
- 92090621706. 2
- 92090621707. 3
- 92090621708. 4

Question Number : 27 Question Id : 9209065490 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

द्वि-आयामी वैद्युत कण संचलन, प्रोटीनों को किस आधार पर विघटित करता है?

- | | |
|------------------------------------|--------------------------|
| (1) नेट द्रव्यमान तथा ऑस्मोटिक दाब | (2) नेट श्यानता तथा आयतन |
| (3) नेट आवेश तथा द्रव्यमान | (4) नेट आवेश तथा आयतन |

Options :

- 92090621705. 1
- 92090621706. 2
- 92090621707. 3
- 92090621708. 4

Question Number : 28 Question Id : 9209065491 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

Differences in absorption of left and right handed circularly polarized light is measured by:

- (1) NMR Spectroscopy
- (2) Mass Spectroscopy
- (3) CD Spectroscopy (Circular dichroism spectroscopy)
- (4) U V – vis Spectroscopy

Options :

- 92090621709. 1
- 92090621710. 2
- 92090621711. 3

92090621712. 4

Question Number : 28 Question Id : 9209065491 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

बाई तथा दाई तरफ वाले वृत्त ध्रुवित प्रकाश के अधिशोषण का मापन निम्न में से किस के द्वारा किया जाता है?

- (1) एन एम आर स्पैक्ट्रमिकी
- (2) द्रव्यमान स्पैक्ट्रमिकी
- (3) सी. डी स्पैक्ट्रमिकी (वर्तुल द्विवर्णता स्पैक्ट्रमिकी)
- (4) यू वी - विस स्पैक्ट्रमिकी

Options :

92090621709. 1

92090621710. 2

92090621711. 3

92090621712. 4

Question Number : 29 Question Id : 9209065492 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 radiation source in TEM (transmission electron microscopy) is :

- | | |
|-------------------|-------------------|
| (1) UV - light | (2) Electron beam |
| (3) Visible light | (4) Microwaves |

Options :

92090621713. 1

92090621714. 2

92090621715. 3

92090621716. 4

Question Number : 29 Question Id : 9209065492 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

टी. ई. एम. (संचरण इलेक्ट्रॉन सूक्ष्मदर्शिका) में विकिरण का स्रोत क्या है?

- | | |
|----------------------|--------------------------|
| (1) पराबैंगनी प्रकाश | (2) इलेक्ट्रॉन किरण पुंज |
| (3) दृश्य प्रकाश | (4) सूक्ष्मतरंगें |

Options :

92090621713. 1
92090621714. 2
92090621715. 3
92090621716. 4

Question Number : 30 Question Id : 9209065493 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

Full form of MALDI – MS is :

- (1) Mass - assisted local degradation / ionic mass spectrometry.
- (2) Mass – assisted local desorption / inosine mass spectrometry.
- (3) Matrix – assisted light deviation / ionization mass spectrometry.
- (4) Matrix – assisted laser desorption / ionization mass spectrometry.

Options :

92090621717. 1
92090621718. 2
92090621719. 3
92090621720. 4

Question Number : 30 Question Id : 9209065493 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

MALDI – MS का पूर्ण रूप है -

- (1) द्रव्यमान – सहायताप्राप्त स्थानीय अवकर्षण / आयोनिक द्रव्यमान स्पैक्ट्रममिति
- (2) द्रव्यमान – सहायताप्राप्त स्थानीय विशोषण / आयनोक्सीन द्रव्यमान स्पैक्ट्रममिति
- (3) आव्यूह – सहायताप्राप्त प्रकाश विचलन / आयनन द्रव्यमान स्पैक्ट्रममिति
- (4) आव्यूह – सहायताप्राप्त लेज़र विशोषण / आयनन द्रव्यमान स्पैक्ट्रममिति

Options :

- 92090621717. 1
- 92090621718. 2
- 92090621719. 3
- 92090621720. 4

Question Number : 31 Question Id : 9209065494 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 most distinctive feature of phylum: Echinodermata is the presence of 'Water Vascular System', which helps in :

- (1) Locomotion
- (2) Capture and transport of food
- (3) Respiration
- (4) Locomotion, capture and transport of food and respiration

Options :

- 92090621721. 1
- 92090621722. 2
- 92090621723. 3
- 92090621724. 4

Question Number : 31 Question Id : 9209065494 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

पर्ण इकाइनोडरमेटा के सर्वाधिक विशिष्ट लक्षण है 'जल संवहन तंत्र' की उपस्थिति, जो निम्न में से किसमें सहायता प्रदान करती है?

- (1) गमन
- (2) भोज्य को पकड़ना तथा संवहन करना
- (3) श्वसन
- (4) गमन, भोज्य को पकड़ना तथा संवहन करना और श्वसन

Options :

- 92090621721. 1
- 92090621722. 2
- 92090621723. 3
- 92090621724. 4

Question Number : 32 Question Id : 9209065495 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 hormone which stimulates an appetite is :

- | | |
|-------------|-----------------|
| (1) Insulin | (2) Leptin |
| (3) Ghrelin | (4) PYY hormone |

Options :

- 92090621725. 1
- 92090621726. 2
- 92090621727. 3
- 92090621728. 4

Question Number : 32 Question Id : 9209065495 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

कौन सा हार्मोन क्षुधा को उद्दीपित करता है?

- | | |
|--------------|---------------------------|
| (1) इन्सुलिन | (2) लैप्टिन |
| (3) ग्रेलिन | (4) पी. वाई. वाई. हार्मोन |

Options :

- 92090621725. 1
- 92090621726. 2
- 92090621727. 3
- 92090621728. 4

Question Number : 33 Question Id : 9209065496 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

Name the Nobel awardee, who provided the first direct evidence that different genes are physically located on the same chromosome by X – linked pattern of inheritance in *Drosophila*.

- | | |
|--------------------|-----------------------|
| (1) Gregor Mendel. | (2) T.H. Morgan. |
| (3) H.J. Muller. | (4) Watson and Crick. |

Options :

- 92090621729. 1
- 92090621730. 2
- 92090621731. 3
- 92090621732. 4

Question Number : 33 Question Id : 9209065496 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

वह नोबेल पुरस्कार विजेता कौन है जिससे यह प्रत्यक्ष साक्ष्य दिया कि ड्रोसोफिला में विभिन्न जीव आनुवांशिकता के X-सहलग्नता प्रतिरूप के अनुसार एक ही गुणसूत्र पर भौतिक रूप से स्थित होते हैं?

- | | |
|--------------------|---------------------|
| (1) ग्रेगोर मंडल | (2) टी. एच. मॉर्गन |
| (3) एच. जे. म्यूलर | (4) वॉटसन तथा क्रिक |

Options :

- 92090621729. 1
- 92090621730. 2
- 92090621731. 3
- 92090621732. 4

Question Number : 34 Question Id : 9209065497 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 the end product in the process of glycolysis in anaerobic and aerobic condition respectively?

- (1) Pyruvate and 3 - phosphoglycerate
- (2) Lactate and phosphoenol pyruvate
- (3) Lactate and pyruvate
- (4) Pyruvate and lactate

Options :

- 92090621733. 1
- 92090621734. 2
- 92090621735. 3
- 92090621736. 4

Question Number : 34 Question Id : 9209065497 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

ग्लाइकोलिसिस की प्रक्रिया में क्रमशः अवायवीय तथा वायवीय स्थितियों में अंतिम उत्पाद क्या होता है?

- | | |
|-----------------------------------|-------------------------------------|
| (1) पायरुवेट तथा 3-फॉस्फोग्लिसरेट | (2) लैक्टेट तथा फॉस्फोइनोल पायरुवेट |
| (3) लैक्टेट तथा पायरुवेट | (4) पायरुवेट तथा लैक्टेट |

Options :

92090621733. 1
92090621734. 2
92090621735. 3
92090621736. 4

Question Number : 35 Question Id : 9209065498 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 secretes Progesterone hormone?

- | | |
|-------------------|-----------------------|
| (1) Leydig cells | (2) Corpus luteum |
| (3) Sertoli cells | (4) Graffian follicle |

Options :

92090621737. 1
92090621738. 2
92090621739. 3
92090621740. 4

Question Number : 35 Question Id : 9209065498 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

प्रोजेस्ट्रोन नामक हार्मोन का स्रवण निम्न में से किस के द्वारा किया जाता है?

- | | |
|----------------------|---------------------|
| (1) लीडिग कोशिकाएँ | (2) कॉर्पस ल्यूटियम |
| (3) सर्टोली कोशिकाएँ | (4) ग्राफियन फॉलिकल |

Options :

92090621737. 1
92090621738. 2
92090621739. 3
92090621740. 4

Question Number : 36 Question Id : 9209065499 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

Two envelope spikes in influenza virus HA & NA stands for

- (1) Hemagglutinin and calnexin
- (2) Hemagglutinin and neulaminadase
- (3) Hemoglobin and neuroserpine
- (4) Heme and nexim

Options :

92090621741. 1
92090621742. 2
92090621743. 3
92090621744. 4

Question Number : 36 Question Id : 9209065499 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

इंफ्लूएंजा विषाणु में द्वि अन्वालोपी स्पाइक एच ए तथा एन ए किसके लिए प्रयुक्त होते हैं?

- | | |
|----------------------------------|----------------------------------|
| (1) रूधिर समूह तथा कैल्नैक्सिन | (2) रूधिर समूह तथा न्यूरोमिनेडेस |
| (3) हीमोग्लोबिन तथा न्यूरोसर्पिन | (4) हीम तथा अधोबाह्य चोल |

Options :

92090621741. 1
92090621742. 2
92090621743. 3
92090621744. 4

Question Number : 37 Question Id : 9209065500 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 polar head group in sphingomyelins is composed of :

- (1) Glycerol or ethanolamine
- (2) Serine or glycerol
- (3) Phosphocholine or phosphoethanolamine
- (4) Cholesterol or sterol

Options :

- 92090621745. 1
- 92090621746. 2
- 92090621747. 3
- 92090621748. 4

Question Number : 37 Question Id : 9209065500 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

स्विंगोमायलिन में ध्रुवीय प्रमुख समूह निम्न से किसके द्वारा बना होता है?

- (1) ग्लिसेरॉल अथवा इथेनॉलअमाइन
- (2) सेरिन अथवा ग्लिसेरॉल
- (3) फॉस्फोकोलीन अथवा फॉस्फोइथेनॉलअमाइन
- (4) कोलैस्ट्रॉल अथवा स्टीरोल

Options :

- 92090621745. 1
- 92090621746. 2
- 92090621747. 3
- 92090621748. 4

Question Number : 38 Question Id : 9209065501 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 of the following statement is **incorrect** about gel electrophoresis?

- (1) Proteins or nucleic acid fragments are separated based on their net charges and mass
- (2) Differential migration of these molecules through agarose gel or polyacrylamide gel, in which small particles moves slowly to resolve better
- (3) Electrical charge that is on DNA molecule help them to move towards the anode
- (4) Migration of small DNA fragments through gel is quickly.

Options :

- 92090621749. 1
- 92090621750. 2
- 92090621751. 3
- 92090621752. 4

Question Number : 38 Question Id : 9209065501 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

जैल वैद्युत कण संचलन के विषय में निम्न में से कौन सा कथन गलत है?

- (1) प्रोटीन तथा न्यूक्लिक अम्ल खंडों को उनके नेट आवेशों तथा द्रव्यमान के आधार पर पृथक किया जाता है।
- (2) एग्रेस जैल अथवा पोलीएक्रिलेमाइड जैल के द्वारा इन अणुओं का विभेदी अभिगमन, जिनमें छोटे कण बेहतर वियोजन करने के लिए शलै शलै गमन करते हैं।
- (3) डी एन ए अणु पर पाया गया विद्युत आवेश उन्हें एनोड की तरफ गमन करने में सहायता करता है।
- (4) छोटे डीएनए खंडों का अभिगमन जैल के माध्यम से त्वरित रूप से होता है।

Options :

- 92090621749. 1
- 92090621750. 2
- 92090621751. 3
- 92090621752. 4

Question Number : 39 Question Id : 9209065502 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 Bryophytes:

- (1) Sporophyte is fully or partially dependent on gametophytes
- (2) Xylem and phloem are the main water and food conducting tissues
- (3) Spore dispersal takes place by means of peristomial teeth only
- (4) Heterospory and seed habit evolved in higher bryophyte

Options :

- 92090621753. 1
- 92090621754. 2
- 92090621755. 3
- 92090621756. 4

Question Number : 39 Question Id : 9209065502 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

ब्रायोफाइट में

- (1) बीजाणु उद्भिद पूर्ण या आंशिक रूप से युग्मकोद्भिद पर निर्भर करता है
- (2) ज़ाइलम तथा फ्लोएम जल तथा भोजन का चालन करने वाले मुख्य ऊतक हैं
- (3) बीजांड का प्रसार केवल परिमुखीय दाँतों द्वारा ही सम्पन्न होता है
- (4) उच्च ब्रायोफाइट में विषम बीजांडता तथा बीज आदत का विकास होता है

Options :

92090621753. 1
92090621754. 2
92090621755. 3
92090621756. 4

Question Number : 40 Question Id : 9209065503 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

Self incompatibility prevents self fertilization and this mechanism involves:

- (1) S_1 – pollen grain from an $S_1 S_2$ parental sporophyte cannot fertilize eggs of an $S_1 S_2$ flower
- (2) S_1 – pollen grain from an $S_1 S_2$ parental sporophytes can fertilize eggs of an $S_1 S_2$ flower
- (3) S_2 pollen grain can fertilize eggs of $S_1 S_2$ and $S_2 S_3$ flower
- (4) S_1 – pollen grain from an $S_1 S_2$ parental sporophytes can fertilize eggs of an $S_1 S_3$ flower

Options :

92090621757. 1
92090621758. 2
92090621759. 3
92090621760. 4

Question Number : 40 Question Id : 9209065503 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

स्व-असंगतता, स्व-निषेचन को रोकती है तथा इस क्रियाविधि में निम्न सम्मिलित होता है:

- (1) S_1 जनक द्वारा उत्पन्न बीजांड उद्भिद के पराग कण किसी $S_1 S_2$ पुष्प के अंड को निषेचित नहीं कर सकते
- (2) $S_1 - S_1 S_2$ जनक द्वारा उत्पन्न बीजांड उद्भिद के पराग कण किसी $S_1 S_2$ पुष्प के अंड को निषेचित कर सकते हैं
- (3) S_2 - पराग कण $S_1 S_2$ तथा $S_2 S_3$ पुष्प के अंड को निषेचित कर सकते हैं
- (4) S_1 - किसी $S_1 S_2$ जनक द्वारा उत्पन्न बीजांड उद्भिद के पराग कण किसी $S_1 S_3$ पुष्प के अंड को निषेचित कर सकते हैं

Options :

92090621757. 1
92090621758. 2
92090621759. 3
92090621760. 4

Question Number : 41 Question Id : 9209065504 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 the composition of membrane attack complex in complement systems?

- (1) $C_1 - C_{29} - C_{39} - C_6 - C_7$
- (2) $C_{5b} - C_{3b} - C_{29} - C_{59} - C_{4b}$
- (3) $C_{3b} - C_{29} - C_{4b} - C_1 - C_3$
- (4) $C_{5b} - C_6 - C_7 - C_8 - C_9$

Options :

92090621761. 1
92090621762. 2
92090621763. 3
92090621764. 4

Question Number : 41 Question Id : 9209065504 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

पूरक तंत्र में झिल्ली आक्षेप सम्मिश्र का संयोजन क्या है?

- (1) C₁ – C₂₉ – C₃₉ – C₆ – C₇
- (2) C_{5b} – C_{3b} – C₂₉ – C₅₉ – C_{4b}
- (3) C_{3b} – C₂₉ – C_{4b} – C₁ – C₃
- (4) C_{5b} – C₆ – C₇ – C₈ – C₉

Options :

92090621761. 1
92090621762. 2
92090621763. 3
92090621764. 4

Question Number : 42 Question Id : 9209065505 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 molecule, ATP does not donate?

- (1) Phosphorye groups
- (2) Deoxyriboxyl group
- (3) Phosphoryl groups
- (4) Adenylyl groups

Options :

92090621765. 1
92090621766. 2
92090621767. 3
92090621768. 4

Question Number : 42 Question Id : 9209065505 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

ए टी पी अणु क्या दान नहीं करता?

- (1) फॉस्फोरिल समूह
- (2) डिऑक्सीराबॉक्सिल समूह
- (3) पायरोफॉस्फॉनिल
- (4) एडेनिलिल समूह

Options :

92090621765. 1
92090621766. 2
92090621767. 3
92090621768. 4

Question Number : 43 Question Id : 9209065506 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 microorganism produces dextran?

- (1) *Clostridium acetobutylicum*
- (2) *Leuconostoc mesenteloides*
- (3) *Bacillus subtilis*
- (4) *Enterobactel aeogenes*

Options :

92090621769. 1
92090621770. 2
92090621771. 3
92090621772. 4

Question Number : 43 Question Id : 9209065506 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

कौन सा सूक्ष्मजीवी डैक्सट्रॉन उत्पन्न करता है?

- | | |
|--|--------------------------------------|
| (1) <i>क्लॉस्ट्रीडियम एसिटोब्यूटाइलिकम</i> | (2) <i>ल्यूकोनोस्टॉक मीसेटेलॉयडस</i> |
| (3) <i>बैसीलस सबटिलिस</i> | (4) <i>एन्टेरोबैक्टेला ऑजिनेस</i> |

Options :

92090621769. 1
92090621770. 2
92090621771. 3
92090621772. 4

Question Number : 44 Question Id : 9209065507 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 chloroplast, ATP generation by chemiosmosis mechanism involves:

- (1) The diffusion of hydrogen ions from stroma to stroma in the presence of light
- (2) The diffusion of hydrogen ions from thylakoid to another thylakoid space
- (3) The diffusion of hydrogen ions from the stroma space to thylakoid through ATP synthase complex
- (4) The diffusion of hydrogen ions from the thylakoids space back to the stroma through ATP synthase complexes

Options :

- 92090621773. 1
- 92090621774. 2
- 92090621775. 3
- 92090621776. 4

Question Number : 44 Question Id : 9209065507 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

हरित लवक में रसोपरासरण क्रियाविधि में निम्न में से क्या सम्मिलित होता है?

- (1) प्रकाश की उपस्थिति में हाइड्रोजन आयनों का पीठिका दर पीठिका विसरण होता है
- (2) एक थाइलैकॉयड से दूसरे थाइलैकॉयड स्थल में हाइड्रोजन आयनों का विसरण
- (3) पीठिका स्थल से थाइलैकॉयड में ए टी पी सिंथेस सम्मिश्र द्वारा आयनों का विसरण
- (4) ए टी पी सिंथेस सम्मिश्रों द्वारा हाइड्रोजन आयनों का थाइलैकॉयड स्थल से वापिस पीठिका में विसरण

Options :

- 92090621773. 1
- 92090621774. 2
- 92090621775. 3
- 92090621776. 4

Question Number : 45 Question Id : 9209065508 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 correct about RNA interference (CRNAi)?

- (1) RNAi take place in all prokaryotic organisms as a method of cellular defense.
- (2) RNAi involves silencing of a specific mRNA due to a complementary dsRNA molecule that bind to and prevent translation of the mRNA
- (3) RNAi involves silencing of all types of RNA due to a complementary ds RNA molecule that bind to and prevents translation of the mRNA.
- (4) RNAi involves silencing of a specific mRNA by the host cell itself due to overproduction of mRNA by sense strand.

Options :

- 92090621777. 1
- 92090621778. 2
- 92090621779. 3
- 92090621780. 4

Question Number : 45 Question Id : 9209065508 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

आर एन ए व्यतिकरण (RNAi) के विषय में निम्न में से कौन सा कथन सही है?

- (1) सभी प्राक्केन्द्रक जीवों कोशिकीय सुरक्षा की एक विधि के रूप में RNAi कार्य करता है
- (2) एक पूरक dsRNA अणु के कारण RNAi में एक विशिष्ट mRNA की नीरवता सम्मिलित होती है जो उस mRNA के साथ बंध बनाकर उसके स्थानांतरण को निरोधित करता है
- (3) एक पूरक dsRNA अणु के कारण RNAi में सभी प्रकार के RNA की नीरवता शामिल होती है जो उसके साथ बंध बनाता है तथा mRNA के स्थानांतरण को निरोधित करता है
- (4) RNAi में पोषी कोशिका द्वारा किसी विशिष्ट mRNA की नीरवता शामिल होती है जो कि संवेदी तंतुओं द्वारा mRNA के अति-उत्पादन के कारण होता है

Options :

- 92090621777. 1
- 92090621778. 2
- 92090621779. 3
- 92090621780. 4

Question Number : 46 Question Id : 9209065509 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 precursor molecule for the synthesis of Vitamin D₃ in human skin is :

- | | |
|------------------|----------------------------|
| (1) Prednisolone | (2) 7 - dehydrocholesterol |
| (3) Estradiol | (4) Isoprene |

Options :

- 92090621781. 1
- 92090621782. 2
- 92090621783. 3
- 92090621784. 4

Question Number : 46 Question Id : 9209065509 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

मानव त्वचा में विटामिन D₃ के संश्लेषण के लिए पूर्ववर्ती अणु _____ है।

- | | |
|------------------|----------------------------|
| (1) प्रेडनीसोलोन | (2) 7-डिहाइड्रोकोलेस्ट्रॉल |
| (3) एस्ट्राडिऑल | (4) आइसोप्रीन |

Options :

- 92090621781. 1
- 92090621782. 2
- 92090621783. 3
- 92090621784. 4

Question Number : 47 Question Id : 9209065510 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 photoperiodism, long day plant flowers only :

- (1) If the night is longer than a critical dark period
- (2) If the night is shorter than a critical dark period
- (3) A flash of light interrupting the dark period prevents flowering
- (4) A light period of less than 8 hours is sufficient for the plants to flower.

Options :

- 92090621785. 1
- 92090621786. 2
- 92090621787. 3
- 92090621788. 4

Question Number : 47 Question Id : 9209065510 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

दीप्तिकालिता में दीर्घप्रदीप्तिकाली पौधे में पुष्पन केवल तभी होता है

- (1) यदि रात्रि एक क्रांतिक अदीप्त काल से अधिक लंबी है
- (2) यदि रात्रि एक क्रांतिक अदीप्त काल से अधिक छोटी है
- (3) अदीप्त काल में व्यवधान उत्पन्न करने वाला प्रकाश का स्फुरण पुष्पन को निरोधित करता है
- (4) 8 घंटों से कम प्रकाश अवधि पादपों में पुष्पन के लिए पर्याप्त है

Options :

92090621785. 1

92090621786. 2

92090621787. 3

92090621788. 4

Question Number : 48 Question Id : 9209065511 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

Geitonogamy is a type of pollination, in which :

- (1) Transfer of pollen grains from anther to the stigma of a different plant
- (2) Transfer of pollen grains from anther to the stigma of chasmogamous flower
- (3) Transfer of pollen grains from anther to stigma of another flower of the same plant
- (4) Transfer of pollen grains from anther to stigma of another of cleistogamous flower

Options :

92090621789. 1

92090621790. 2

92090621791. 3

92090621792. 4

Question Number : 48 Question Id : 9209065511 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

सजातपुष्पी परागण ऐसा परागण है जिसमें

- (1) परागकणों का परागकण से किसी भिन्न पौधे के क्लोमछिद्र में स्थानांतरण होता है
- (2) परागकणों का परागकण से उन्मील परागणी पुष्प के क्लोमछिद्र में स्थानांतरण होता है
- (3) परागकणों का परागकण से उसी पौधे के किसी अन्य पुष्प के क्लोमछिद्र में स्थानांतरण होता है
- (4) परागकणों का परागकोष से अनुन्मील्य परागणी पुष्प के अन्य क्लोमछिद्र में होता है

Options :

92090621789. 1
92090621790. 2
92090621791. 3
92090621792. 4

Question Number : 49 Question Id : 9209065512 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

Citronella oil is obtained from

- | | |
|--------------------------------|------------------------------|
| (1) <i>Linum usitatissimum</i> | (2) <i>Glycine max</i> |
| (3) <i>Cymbopogon nordus</i> | (4) <i>Elaeis guineensis</i> |

Options :

92090621793. 1
92090621794. 2
92090621795. 3
92090621796. 4

Question Number : 49 Question Id : 9209065512 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

सिट्रोनेला तेल किस से प्राप्त किया जाता है

- | | |
|------------------------|----------------------|
| (1) लाइनम यूसीटैटीसिमम | (2) ग्लाइसीन मैक्स |
| (3) सिम्बोपोगान नार्डस | (4) इलियेस गिनीन्सिस |

Options :

92090621793. 1
92090621794. 2
92090621795. 3
92090621796. 4

Question Number : 50 Question Id : 9209065513 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 not the heteropolysaccharide of extra celluer matrix in multicellular animals?

- | | |
|-----------------|---------------------|
| (1) Hyalurtonan | (2) Keratan sulfate |
| (3) Keratin | (4) Heparin |

Options :

- 92090621797. 1
- 92090621798. 2
- 92090621799. 3
- 92090621800. 4

Question Number : 50 Question Id : 9209065513 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 बहुकोशिकीय जंतुओं में कोशिकाबाह्य आव्यूह के विषमबहुसैकराइड नहीं है?

- | | |
|------------------|-------------------|
| (1) हायल्यूरोनेन | (2) केराटन सल्फेट |
| (3) केराटिन | (4) यकृतिन |

Options :

- 92090621797. 1
- 92090621798. 2
- 92090621799. 3
- 92090621800. 4

Question Number : 51 Question Id : 9209065514 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 one of the possible hazards of genetically modified (GM) crops?

- (1) Modified genes of herbicide resistance from GM crops get into weed plant through pollination and this plant might become resistant to herbicide and so become a "Superweed".
- (2) There is no possible hazard known till date, regarding transfer of any genes between the plants.
- (3) Production techniques of GM crops is proof and genetic engineering offers the advantage of transferring on those genes that are required
- (4) Production of GM crops may replace the existing germplasm

Options :

- 92090621801. 1
- 92090621802. 2
- 92090621803. 3
- 92090621804. 4

Question Number : 51 Question Id : 9209065514 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

आनुवांशिक रूप से आपरिवर्तित शस्यों में, निम्न में से कौन सा संभावित संकटों में से एक है?

- (1) आनुवांशिक रूप से आपरिवर्तित शस्यों के शाकनाशी प्रतिरोध वाले आपरिवर्तित जीन, परागण द्वारा किसी खरपतवार में प्रवेश कर सकते हैं और यह पौधा शाकनाशी प्रतिरोधी बन कर है इस प्रकार एक 'अति खरपतवार' (सुपरवीड) बन सकता है।
- (2) पौधों के जीनों के स्थानांतरण के विषय में अभी तक किसी संभावित संकट के विषय में ज्ञान नहीं है।
- (3) आनुवांशिक रूप से आपरिवर्तित शस्यों की उत्पादन तकनीक सुस्पष्ट है तथा आनुवांशिक इंजीनियरिंग केवल आवश्यक जीन के स्थानांतरण से होने वाले लाभ ही प्रस्तुत करती है।
- (4) आनुवांशिक रूप से आपरिवर्तित शस्यों का उत्पादन मौजूदा जननद्रव्य को प्रतिस्थापित कर सकता है।

Options :

- 92090621801. 1
- 92090621802. 2
- 92090621803. 3
- 92090621804. 4

Question Number : 52 Question Id : 9209065515 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 nerve impulse is transmitted from one neuron to another through junction called :

- | | |
|--------------|-------------|
| (1) Dendrite | (2) Synapse |
| (3) Axon | (4) Impulse |

Options :

- 92090621805. 1
- 92090621806. 2
- 92090621807. 3
- 92090621808. 4

Question Number : 52 Question Id : 9209065515 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

एक तंत्रिका संवेद एक न्यूरॉन से दूसरे में संधियों के द्वारा स्थानांतरित होती है। इस संधि को _____ कहते हैं।

- | | |
|---------------|--------------|
| (1) डैन्डराइट | (2) साइनेप्स |
| (3) एक्सोन | (4) इम्पल्स |

Options :

- 92090621805. 1
- 92090621806. 2
- 92090621807. 3
- 92090621808. 4

Question Number : 53 Question Id : 9209065516 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

Application of genetic finger printing is not directly linked with :

- | | |
|--------------------------------|--------------------------|
| (1) Identification of suspects | (2) Species conservation |
| (3) Determining paternity | (4) Property disputes |

Options :

- 92090621809. 1
- 92090621810. 2
- 92090621811. 3
- 92090621812. 4

Question Number : 53 Question Id : 9209065516 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

आनुवांशिक आँगुलि छाप का अनुप्रयोग प्रत्यक्षतः किससे संबद्ध नहीं है?

- | | |
|------------------------------|--------------------------------|
| (1) संदिग्ध व्यक्ति की पहचान | (2) स्पीशीज़ संरक्षण |
| (3) पैतृकता निर्धारण | (4) संबन्धि संबंधी झगड़े/विवाद |

Options :

- 92090621809. 1
- 92090621810. 2
- 92090621811. 3
- 92090621812. 4

Question Number : 54 Question Id : 9209065517 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

Extra nuclear genomes of mitochondria and chloroplasts have evolved from :

- | | |
|-----------------------|------------------------|
| (1) Natural selection | (2) Adaptive radiation |
| (3) Heteroplasmy | (4) Endosymbiosis |

Options :

- 92090621813. 1
- 92090621814. 2
- 92090621815. 3
- 92090621816. 4

Question Number : 54 Question Id : 9209065517 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

माइटोकॉन्ड्रिया तथा हरित लवक का केन्द्रकबाह्य जीनोम किससे विकसित होता है?

- | | |
|-------------------|--------------------|
| (1) प्राकृतिक चयन | (2) अनुकूली विकिरण |
| (3) विषयद्रव्यन | (4) अंत सहजीवन |

Options :

- 92090621813. 1
- 92090621814. 2
- 92090621815. 3
- 92090621816. 4

Question Number : 55 Question Id : 9209065518 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 the template strand of a segment of a gene has the nucleotide sequence 3' – GCTAAGC – 5', What nucleotide Sequence will be present in the RNA transcript specified by this gene segment?

- (1) 3' – GCTAAGC – 5' (2) 5' – CGAUUCG – 3'
(3) 3' – CGATTCG – 5' (4) 5' – CGATTCG – 3'

Options :

92090621817. 1
92090621818. 2
92090621819. 3
92090621820. 4

Question Number : 55 Question Id : 9209065518 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

यदि किसी जीन खंड के टेम्पलेट तंतु में न्यूक्लियोटाइड क्रम 3' – GCTAAGC – 5' है तो इस जीन द्वारा विनिर्दिष्ट अनुलेखन में क्या न्यूक्लियोटाइड क्रम उपस्थित होगा?

- (1) 3' – GCTAAGC – 5' (2) 5' – CGAUUCG – 3'
(3) 3' – CGATTCG – 5' (4) 5' – CGATTCG – 3'

Options :

92090621817. 1
92090621818. 2
92090621819. 3
92090621820. 4

Question Number : 56 Question Id : 9209065519 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

J chain is present in :

- (1) I_gE (2) I_gA
(3) I_gG (4) I_gD

Options :

92090621821. 1
92090621822. 2
92090621823. 3

92090621824. 4

Question Number : 56 Question Id : 9209065519 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

जे श्रंखला किसमें उपस्थित होती है?

- | | |
|------------|------------|
| (1) I_gE | (2) I_gA |
| (3) I_gG | (4) I_gD |

Options :

92090621821. 1

92090621822. 2

92090621823. 3

92090621824. 4

Question Number : 57 Question Id : 9209065520 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 Hardy – Weinberg equation can be used to test :

- (1) Whether evolution is occurring at a population level.
- (2) To determine the genotypes of offspring in a genetic cross.
- (3) Whether evolution is occurring at an individual level.
- (4) To determine the phenotypes of offspring in a crossing experiment

Options :

92090621825. 1

92090621826. 2

92090621827. 3

92090621828. 4

Question Number : 57 Question Id : 9209065520 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

हार्डी-वाइनबर्ग समीकरण का उपयोग निम्न में से किसके परीक्षण के लिए किया जा सकता है?

- (1) क्या विकास जनसंख्या स्तर पर हो रहा है।
- (2) आनुवांशिक संकरण में संतति की जीनी संरचना के निर्धारण के लिए।
- (3) क्या विकास व्यक्तिगत स्तर पर हो रहा है।
- (4) संकरण प्रयोग में संतति के समलक्षणों को निर्धारित करने के लिए।

Options :

92090621825. 1
92090621826. 2
92090621827. 3
92090621828. 4

Question Number : 58 Question Id : 9209065521 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 interphase cell, less compacted and highly condensed chromatin are called as :

- (1) Heterologous and homologous, respectively.
- (2) Heterochromatin and Euchromatin, respectively
- (3) Euchromatin and heterochromatin, respectively
- (4) Orthologous and baralogous, respectively.

Options :

92090621829. 1
92090621830. 2
92090621831. 3
92090621832. 4

Question Number : 58 Question Id : 9209065521 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

अंतरावस्था कोशिकाओं में निम्न संहति तथा उच्च संघनित क्रोमेटिन को क्या कहते हैं?

- (1) क्रमशः विषयजात तथा समाजात
- (2) क्रमशः विषमक्रोमेटिन तथा समजात
- (3) क्रमशः यूक्रोमेटिन तथा विषयक्रोमेटिन
- (4) क्रमशः ऑर्थोलोगस तथा पैरालोगस

Options :

92090621829. 1
92090621830. 2
92090621831. 3
92090621832. 4

Question Number : 59 Question Id : 9209065522 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 not the antimicrobial peptide?

- | | |
|--------------------|--------------|
| (1) Cathelicidin | (2) Defensin |
| (3) Immunoglobulin | (4) Histatin |

Options :

92090621833. 1
92090621834. 2
92090621835. 3
92090621836. 4

Question Number : 59 Question Id : 9209065522 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 प्रतिसूक्ष्मजीवी पैप्टाइड नहीं है?

- | | |
|---------------------------|---------------|
| (1) कैथेलिसिडिन | (2) डिफेन्सिन |
| (3) प्रतिरक्षाग्लोब्यूलिन | (4) हिस्टैटिन |

Options :

92090621833. 1
92090621834. 2
92090621835. 3
92090621836. 4

Question Number : 60 Question Id : 9209065523 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 functions of telomeres is

- (1) Protect intact eukaryotic chromosomes from improper fusion or degradation
- (2) Attack the intact eukaryotic chromosomes at the centromeric region
- (3) Degrade the intact eukaryotic chromosome
- (4) Protect the intact chromosomes from histone proteins.

Options :

- 92090621837. 1
- 92090621838. 2
- 92090621839. 3
- 92090621840. 4

Question Number : 60 Question Id : 9209065523 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

अंत्यमकों का कार्य है -

- (1) सही यूकेरियोटिक गुणसूत्रों की अनुचित संलयन अथवा निम्न से सुरक्षा करना।
- (2) सही यूकेरियोटिक गुणसूत्रों पर सेन्ट्रो मीडिक क्षेत्र में हमला करना
- (3) सही यूकेरियोटिक गुणसूत्रों को निम्न करना
- (4) सही गुणसूत्रों की हिस्टोन प्रोटीनों से सुरक्षा

Options :

- 92090621837. 1
- 92090621838. 2
- 92090621839. 3
- 92090621840. 4

Question Number : 61 Question Id : 9209065524 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 Karyotype of individual is written as 47, XX, +21 indicating:

- | | |
|---------------------|--------------------------|
| (1) Edward Syndrome | (2) Down Syndrome |
| (3) Turner Syndrome | (4) Klinefelter Syndrome |

Options :

- 92090621841. 1
- 92090621842. 2
- 92090621843. 3

92090621844. 4

Question Number : 61 Question Id : 9209065524 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

केन्द्रकप्ररूप प्रकार के व्यक्ति को 47, XX, +21 रूप में लिखा जाना क्या रंगित करता है?

- | | |
|---------------------|---------------------------|
| (1) एडवर्ड सिंड्रोम | (2) डाउन सिंड्रोम |
| (3) टर्नर सिंड्रोम | (4) क्लाइनफेल्टर सिंड्रोम |

Options :

- 92090621841. 1
- 92090621842. 2
- 92090621843. 3
- 92090621844. 4

Question Number : 62 Question Id : 9209065525 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

Lampbrush chromosomes were first discovered in Salamander oocytes by:

- | | |
|-------------------|----------------------|
| (1) E.G. Balbiani | (2) Robert Hook |
| (3) J. Ruckelt | (4) Walther Flemming |

Options :

- 92090621845. 1
- 92090621846. 2
- 92090621847. 3
- 92090621848. 4

Question Number : 62 Question Id : 9209065525 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

सैलेमेन्डर ऊसाइटो में लैम्ब्रुश गुणसूत्रों की खोज सर्वप्रथम किसने की थी?

- | | |
|----------------------|----------------------|
| (1) ई.जी. बाल्बियानी | (2) रॉबर्ट हुक |
| (3) जे. रुकैल्ट | (4) वाल्टनर फ्लैमिंग |

Options :

- 92090621845. 1
- 92090621846. 2

92090621847. 3

92090621848. 4

Question Number : 63 Question Id : 9209065526 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

Topoisomerase II introduces the :

- (1) Single stranded supercoils in DNA
- (2) Both positive and negative supercoils in DNA
- (3) Negative supercoils in DNA
- (4) Positive supercoils in DNA

Options :

92090621849. 1

92090621850. 2

92090621851. 3

92090621852. 4

Question Number : 63 Question Id : 9209065526 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

टोपोआइसोमेरेस किसको प्रवर्तित करता है?

- (1) डी एन ए में एकतंतु उपरिकुंडलियाँ
- (2) डी एन ए में धनात्मक तथा ऋणात्मक दोनों उपरिकुंडलिनियाँ
- (3) डी एन ए में ऋणात्मक उपरिकुंडलिनियाँ
- (4) डी एन ए में धनात्मक उपरिकुंडलिनियाँ

Options :

92090621849. 1

92090621850. 2

92090621851. 3

92090621852. 4

Question Number : 64 Question Id : 9209065527 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 Sequences essential for centromete function are :

- (1) About 200 bl long and very rich in G ≡ C pairs.
- (2) About 1000 bl long and very rich in A = U pairs.
- (3) About 130 bl long and very rich in A = T pairs.
- (4) About 20,000 bl and very rich in lysine and arginine.

Options :

- 92090621853. 1
- 92090621854. 2
- 92090621855. 3
- 92090621856. 4

Question Number : 64 Question Id : 9209065527 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

सूत्रकेन्द्र के कार्यों के लिए आवश्यक क्रम हैं -

- (1) लगभग 200 bb लम्बा तथा युग्मों में प्रचुर
- (2) लगभग 1000 bb लम्बा तथा युग्मों में प्रचुर
- (3) लगभग 130 bb लम्बा तथा युग्मों में प्रचुर
- (4) लगभग 20,000 bb लम्बा तथा लाइसीन और आर्जिनिन में प्रचुर

Options :

- 92090621853. 1
- 92090621854. 2
- 92090621855. 3
- 92090621856. 4

Question Number : 65 Question Id : 9209065528 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 Sea anemones and corals belongs to the phylum :

- | | |
|---------------------|-------------------|
| (1) Platyhelminthes | (2) Coelenterata |
| (3) Porifera | (4) Echinodermata |

Options :

- 92090621857. 1
- 92090621858. 2
- 92090621859. 3

92090621860. 4

Question Number : 65 Question Id : 9209065528 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

समुद्री एनीमोन तथा प्रवाल किस पर्ण से संबंधित हैं?

- | | |
|-----------------------|------------------|
| (1) प्लेटीहेल्मिन्थीस | (2) सीलैन्ट |
| (3) पोरीफेरा | (4) इकाइनोडरमेटा |

Options :

92090621857. 1

92090621858. 2

92090621859. 3

92090621860. 4

Question Number : 66 Question Id : 9209065529 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) : Glucose homeostasis relies predominantly on the antagonistic effects of the hormones, insulin and glucagon.

Reasons (R) : When the blood glucose level rises above the normal range, the Secretion of insulin trigger the uptake of glucose from the blood into body cells, decreasing the blood glucose concentration. When the blood glucose level drops below the normal range, the secretion of glucagon promotes the release of glucose into the blood from energy stores, such as liver glycogen, increasing the blood glucose 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 :

92090621861. 1

92090621862. 2

92090621863. 3

92090621864. 4

Question Number : 66 Question Id : 9209065529 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 : ग्लूकोज़ समस्थैतिकता प्रबल रूप से दो संगतियों, इंसुलिन तथा ग्लूकोगोन के प्रतिरोधी प्रयासों पर निर्भर करता है।

कारण R : जब रुधिर में ग्लूकोज़ का स्तर सामान्य स्तर से बढ़ जाता है तो इंसुलिन का स्राव, रुधिर में ग्लूकोज़ की सांद्रता को कम करते हुए शरीर कोशिकाओं में रुधिर से ग्लूकोज़ का उद्ग्रहण प्रवर्तित करता है। जब रुधिर में ग्लूकोज़ का स्तर सामान्य से कम हो जाता है तो ग्लूकोगोन का स्राव, रुधिर में ग्लूकोज़ की सांद्रता को बढ़ाते हुए, ऊर्जा भंडारों में से रुधिर में अधिक ग्लूकोज़ छोड़ने के लिए अग्रसर करता है जैसे यकृत ग्लाइकोजन।

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 :

92090621861. 1

92090621862. 2

92090621863. 3

92090621864. 4

Question Number : 67 Question Id : 9209065530 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) : Constitutive heterochromatin is the region of chromosome, that is always heterochromatic and permanently inactive with regard to transcription.

Reasons (R) : Facultative heterochromatin refers to chromatin that can occasionally interconvert between heterochromatin and euchromatin.

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 :

- 92090621865. 1
- 92090621866. 2
- 92090621867. 3
- 92090621868. 4

Question Number : 67 Question Id : 9209065530 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 : रचक विषमवर्ण गुणसूत्रों का एक ऐसा क्षेत्र है जो सदैव निशमवर्णी रहता है और अनुलेखन के संदर्भ में स्थाई रूप से निष्क्रिय रहता है।

कारण R : विकल्पी विषमवर्ण, क्रोमेटिन को संदर्भित करता है जो विषमवर्ण तथा यूक्रोमेटिन में यदा कदा अंतररूपांतरण कर 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 :

- 92090621865. 1
- 92090621866. 2
- 92090621867. 3

Question Number : 68 Question Id : 9209065531 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) : *Staphylococcus aureus* is gram negative bacteria.

Reasons (R) : *Saccharomyces cerevisiae* and *Neurospora crassa* are the examples of class Ascomycetes in fungi.

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

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

Options :

92090621869. 1

92090621870. 2

92090621871. 3

92090621872. 4

Question Number : 68 Question Id : 9209065531 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 : स्टैफाइलोकोकस ऑरियस एक ग्राम ऋमात्मक जीवाणु है।

कारण R : सैक्रोमाइसिस सैरेविसी तथा न्यूरोस्पोरा क्रसा कवक में वर्ग एस्कोमाइसिटीज़ के उदाहरण 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 :

92090621869. 1
92090621870. 2
92090621871. 3
92090621872. 4

Question Number : 69 Question Id : 9209065532 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) : In tertiary structure of protein hydrophobic side chains are held interior while the hydrophilic groups are on the surface of the protein molecule.

Reasons (R) : Other than hydrogen bonds disulfide bonds (S – S), ionic interaction (Electrostatic), hydrophobic interaction and Vander Waals forces also contribute to the tertiary structure of protein.

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

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

Options :

92090621873. 1
92090621874. 2

92090621875. 3

92090621876. 4

Question Number : 69 Question Id : 9209065532 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 : प्रोटीन जलभीत की तृतीयक संरचनाओं में साइड श्रंखलाएँ भीतर होती हैं जबकि जलरागी समूह प्रोटीन अणु की सतह पर होते हैं।

कारण R : हाइड्रोजन, बंधों के अतिरिक्त, डाइसल्फाइड बंध , आयनिक अंतःक्रियाएँ (स्थिरवैद्युत), जलभीत अंतःक्रियाएँ तथा वान्डरवॉल्स बलों का भी प्रोटीन की तृतीयक संरचना में योगदान होता 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 :

92090621873. 1

92090621874. 2

92090621875. 3

92090621876. 4

Question Number : 70 Question Id : 9209065533 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) : PCR is a technique to amplify large quantities of a specific DNA.

Reasons (R) : PCR technique involves the following steps; renaturation, denaturation and synthesis.

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

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

Options :

- 92090621877. 1
- 92090621878. 2
- 92090621879. 3
- 92090621880. 4

Question Number : 70 Question Id : 9209065533 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 : किसी विशिष्ट डी एन ए बड़ी मात्राओं को प्रवर्धित करने के लिए पी सी आर एक तकनीक है।

कारण R : पी सी आर तकनीक में निम्न चरण शामिल होते हैं – पुनःप्राकृतिकरण, विकृतिकरण तथा संश्लेषण।

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 :

- 92090621877. 1
- 92090621878. 2
- 92090621879. 3
- 92090621880. 4

Question Number : 71 Question Id : 9209065534 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) : Restriction enzymes recognize their particular recognition sequence and cut the ss DNA / ds DNA to produce cohesive and blunt fragments.

Reasons (R) : Restriction enzyme with A – base recognition will cut, on average, every 256 base pairs if all four nucleotides are present in equal proportions.

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

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

Options :

92090621881. 1

92090621882. 2

92090621883. 3

92090621884. 4

Question Number : 71 Question Id : 9209065534 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 : प्रतिबंधन एंजाइम अपने विशेष पहचान क्रम को पहचानते हैं तथा संबद्ध व कुंद खंडों को तैयार करने के लिए ss DNA / ds DNA को काटते हैं।

कारण R : यदि चारों न्यूक्लियोटाइड सम अनुपात में विद्यमान होते हैं तो – बेस पहचान वाले प्रतिबंधन एंजाइम औसतन 256 बेस युग्मों को काटते 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 :

92090621881. 1
92090621882. 2
92090621883. 3
92090621884. 4

Question Number : 72 Question Id : 9209065535 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) : In pteridophytes, genera like *Selaginella* and *Salvinia* produces heterospores.

Reasons (R) : Heterospory in pteridophytes is a precursor to the seed habit, which is an important step in evolution

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

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

Options :

92090621885. 1
92090621886. 2

92090621887. 3

92090621888. 4

Question Number : 72 Question Id : 9209065535 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 : टैरिडोफाइट में सेलेजिनेला और सेल्वीनिय जैसे वंश विषमबीजाणु उत्पन्न करते हैं।

कारण R : टैरिडोफाइट में विषयबीजाणुता बीज आदत के लिए पूर्वगामी है, जिस विकास के लिए एक महत्वपूर्ण चरण माना 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 :

92090621885. 1

92090621886. 2

92090621887. 3

92090621888. 4

Question Number : 73 Question Id : 9209065536 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

Write the correct sequence for compounds in citric acid cycle :

- A. Malate
- B. Fumarate
- C. Succinyl Co-A
- D. Oxaloacetate
- E. Succinate

Choose the correct answer from the options given below :

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

Options :

- 92090621889. 1
- 92090621890. 2
- 92090621891. 3
- 92090621892. 4

Question Number : 73 Question Id : 9209065536 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

सिट्रिक अम्ल चक्रण में यौगिकों के सही क्रम में लिखें।

- A. मैलेट
- B. फ्यूमरेट
- C. सक्सिनिल - CoA
- D. ऑक्सॅलोएॅसिटेट
- E. सक्सिनेट

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

92090621889. 1
92090621890. 2
92090621891. 3
92090621892. 4

Question Number : 74 Question Id : 9209065537 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 sequence of events taking place during Calvin cycle are:

- A. The first product of the fixation of carbon dioxide is glycerate 3 - phosphate
- B. Glycerate 3 – phosphate is immediately reduced to 3 carbon sugar phosphate, triose phosphate.
- C. Conversion of glycerate – 3 phosphate to triose phosphate consumes $\text{NADPH} + \text{H}^+$ and ATP
- D. Triose phosphate is further metabolized to produce sugars
- E. Some of the triose phosphate is metabolized to produce ribulose bisphosphate.

Choose the correct answer from the options given below :

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

Options :

92090621893. 1
92090621894. 2
92090621895. 3
92090621896. 4

Question Number : 74 Question Id : 9209065537 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

कैल्विन चक्रण के दौरान का पहला उत्पाद ग्लिसरेट 3-फॉस्फेट है।

- A. कार्बनडाइआक्साइड के स्थिरीकरण का पहला उत्पाद ग्लिसरेट 3-फॉस्फेट है।
- B. ग्लिसरेट - 3 फॉस्फेट तुरन्त ही 3 कार्बन शर्करा फॉस्फेट, ट्रायोस फॉस्फेट में निम्मीकृत हो जाता है।
- C. ग्लिसरेट - 3 फॉस्फेट का ट्रायोस फॉस्फेट में परिवर्तन, NADPH+H⁺ तथा ATP का उपभोग करता है।
- D. ट्रायोस फॉस्फेट का शर्करा उत्पन्न करने के लिए और उपापचित होता है।
- E. कुछ ट्रायोस फॉस्फेट का उपापचयन रायबुलोज बाइफॉस्फेट उत्पन्न करने के लिए होता है।

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

- 92090621893. 1
- 92090621894. 2
- 92090621895. 3
- 92090621896. 4

Question Number : 75 Question Id : 9209065538 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

Write the different steps for water purification process of untreated water to drinking water for human use in sequence

- A. Color and precipitate removal
- B. Softening process (Ca, Mg removal)
- C. Taste and odour removal
- D. Disinfection
- E. Turbidity removal

Choose the correct answer from the options given below :

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

Options :

- 92090621897. 1

92090621898. 2

92090621899. 3

92090621900. 4

Question Number : 75 Question Id : 9209065538 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

अनुपचारित जल को मानव उपयोग में पीने योग्य बनाने के लिए जल शुद्धिकरण प्रक्रिया के विभिन्न चरणों को पहचानें।

- A. रंग तथा अवक्षेपों को हटाना
- B. मृदुलन प्रक्रिया (Ca, Mg को हटाना)
- C. स्वाद तथा गंध को हटाना
- D. विसंक्रमण
- E. आविलता को हटाना

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

92090621897. 1

92090621898. 2

92090621899. 3

92090621900. 4

Question Number : 76 Question Id : 9209065539 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

Identify the appropriate sequence for the production of dendritic cells from hematopoietic stem cells in bone marrow.

- (A) Common myeloid progenitor
- (B) Monoblast
- (C) Hematopoietic stem cells in bone marrow
- (D) Monocytes
- (E) Dendritic cells

Choose the correct answer from the options given below :

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

Options :

- 92090621901. 1
- 92090621902. 2
- 92090621903. 3
- 92090621904. 4

Question Number : 76 Question Id : 9209065539 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

अस्थि मज्जा में रक्तोत्पादक मूल कोशिका से द्रूमिका कोशिकाओं के उत्पादन के लिए उचित क्रम को पहचानें

- A. सामान्य माइकलोड प्रोजेनीटर
- B. एकलकोरक
- C. अस्थि मज्जा में रक्तोत्पादक मूल कोशिकाएँ
- D. मोनोसाइट
- E. द्रूमिका कोशिकाएँ

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

- 92090621901. 1
- 92090621902. 2
- 92090621903. 3
- 92090621904. 4

Question Number : 77 Question Id : 9209065540 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

Identify the different levels of packing from DNA to chromosome in a sequential manner

- (A) Radial loops attached with protein scaffold
- (B) Nucleosome
- (C) Double helix DNA
- (D) Metaphase chromosome
- (E) 30 nm fiber

Choose the correct answer from the options given below :

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

Options :

- 92090621905. 1
- 92090621906. 2
- 92090621907. 3
- 92090621908. 4

Question Number : 77 Question Id : 9209065540 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

डी.एन.ए से गुणसूत्रों तक संपुटन के विभिन्न स्तरों को क्रमानुसार पहचानें

- A. प्रटीन मंचक के साथ संलग्न त्रिज्य पाश
- B. केंद्रिकाभ
- C. द्विकुडलिनी डीएनए
- D. मध्यावस्था गुणसूत्र
- E. 30 nm तंतु

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

- 92090621905. 1
- 92090621906. 2
- 92090621907. 3
- 92090621908. 4

Question Number : 78 Question Id : 9209065541 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 body cavity, which is lined by mesoderm is called Coelom. Which of the following is/are NOT coelomates.

- (A) Hemichordates
- (B) Chordates
- (C) Platyhelminthes
- (D) Annelids
- (E) Arthropods

Choose the correct answer from the options given below :

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

Options :

- 92090621909. 1
- 92090621910. 2
- 92090621911. 3
- 92090621912. 4

Question Number : 78 Question Id : 9209065541 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

कायिक गुहिका, जो मध्यजनस्तर द्वारा अस्तरित घेती है, इसे सीमोम कहते हैं। निम्न में से कौन सा प्रगुही नहीं है?

- (A) हेमीकॉर्डेट
- (B) कॉर्डेट
- (C) प्लैटीहेल्मीनथीस
- (D) एनीलिड (लघुवलयक)
- (E) आश्रोपॉड

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

92090621909. 1

92090621910. 2

92090621911. 3

92090621912. 4

Question Number : 79 Question Id : 9209065542 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

Identify the correct sequence of steps involved in detection of specific DNA fragments from a mixture of DNA :

- (A) DNA is separated by electrophoresis and visualized by staining
- (B) Filter is placed in sealed bag with solution containing radioactive probe
- (C) DNA samples are cut by Restriction Endonucleases and loaded onto gel
- (D) Filter is washed to remove excess probe and placed on X-ray film to produce images of DNA bands
- (E) DNA binding filter paper towels and weights are placed on gel. Due to capillary action DNA fragments bind to the membrane

Choose the correct answer from the options given below :

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

Options :

92090621913. 1

92090621914. 2

92090621915. 3

92090621916. 4

Question Number : 79 Question Id : 9209065542 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

डीएनए अणुओं के मिश्रण में से विशिष्ट डीएनए खंडों के संसूचन शामिल के चरणों का योग्य क्रम पहचानिए

- (A) डीएनए कण संचलन द्वारा डीएनए का प्रथक्कीकरण किया जाता है तथा अभिरंजन द्वारा प्रत्याक्षीकृत किया जाता है
- (B) रेडियोएक्टिव परीक्षित विलयन वाले सील किए हुए वेग में निस्यंदक को रखा जाता है
- (C) डीएनए सैम्पिल को प्रतिबंधन एंडोन्यूक्लिएज द्वारा काटा जाता है तथा जैल पर उद्धारित किया जाता है
- (D) निस्यांदक को अतिरिक्त परीक्षित हटाने के लिए धोया जाता है तथा डीएनए बैंड (पार्टीया) की छाया उत्पन्न करने के लिए X-ray फिल्म पर चढ़ाया जाता है
- (E) डीएनए बंधन निस्यंदक, कागज़ी तौलिया तथा भार को जैल पर रखा जाता है केशिका क्रिया के कारण डीएनए खंड सिल्ली के साथ बंध जाते हैं

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

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

Options :

- 92090621913. 1
- 92090621914. 2
- 92090621915. 3
- 92090621916. 4

Question Number : 80 Question Id : 9209065543 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 : Formation of additional coils due to twisting forces is referred to as DNA supercoiling.

Statement II : The enzyme DNA gyrase, also known as topoisomerase II relax positive supercoiled DNA, using energy from ATP.

In the light of the above statements, choose the correct 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 :

92090621917. 1

92090621918. 2

92090621919. 3

92090621920. 4

Question Number : 80 Question Id : 9209065543 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 : व्यावर्तन बलों के कारण अतिरिक्त कुंडलिनियों के निर्मित को डीएनए अतिकुंडलन कहते हैं ।

कथन II : ए.टी.पी. ऊर्जा का उपयोग करते हुए, डीएनए गायरेज नामक एंजाइम जिसे टोपोआइसोमेरेस II भी कहते हैं, धनात्मक अतिकुंडलित डीएनए को शिथिल बनाता है ।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

92090621917. 1

92090621918. 2

92090621919. 3

Question Number : 81 Question Id : 9209065544 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 : The Pineal gland is located on the dorsal side of forebrain. It secretes a hormone called melatonin.

Statement II : Melatonin helps in maintaining the normal rhythms of sleep-wake cycle, body temperature also influences metabolism, pigmentation, menstrual cycle and defense capability.

In the light of the above statements, choose the correct 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 false but Statement II is correct

Options :

92090621921. 1

92090621922. 2

92090621923. 3

92090621924. 4

Question Number : 81 Question Id : 9209065544 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 : पीनियल ग्रंथी, मस्तिष्क के पृष्ठ भाग में अवस्थित होती है। इसमें से मेलेटोनिन नामक हार्मोन का स्राव होता है।

कथन II : मैलेटोनिन के चक्र को सामान्य लयबद्धता, शरीर तापमान व्यवस्थित करने में सहायक होता है तथा यह उपापचय वर्णकता, रजोधर्म चक्र और सुरक्षा की क्षमता को भी प्रभावित करता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

92090621921. 1
92090621922. 2
92090621923. 3
92090621924. 4

Question Number : 82 Question Id : 9209065545 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 : Phytohormone ethylene promotes senescence and abscission of plant organs.

Statement II : The most widely used compound as source of ethylene is Ethephon.

In the light of the above statements, choose the correct 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 :

92090621925. 1
92090621926. 2

92090621927. 3

92090621928. 4

Question Number : 82 Question Id : 9209065545 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 : पादपहारमोन एथीलीन पादप संगों के जीर्णता तथा विलगन को अग्रसर करता है।

कथन II : एथीलीन स्रोत के रूप में सबसे अधिक न्यापक स्तर पर प्रयोग में लाया जाने वाला यौगिक एथेलोन है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही उत्तरका 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 :

92090621925. 1

92090621926. 2

92090621927. 3

92090621928. 4

Question Number : 83 Question Id : 9209065546 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 : Gene therapy is a therapeutic technique that aims to transfer normal genes into a patient's cells

Statement II : Gene therapy has successfully restored the cases severe combined immunodeficiency (SCID).

In the light of the above statements, choose the correct 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 :

- 92090621929. 1
- 92090621930. 2
- 92090621931. 3
- 92090621932. 4

Question Number : 83 Question Id : 9209065546 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 : सामान्य जीनों को किसी रोगी की कोशिकाओं में सथानांतरित करने वाली जीना चिकित्सा एक चिकित्सकीय तकनीक है ।

कथन II : जीना चिकित्सा द्वारा संयोजित प्रतिरक्षान्यूनता (SCID) के मामलों को सफलतापूर्वक पुनः स्थापित किया गया है ।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही उत्तरका 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 :

- 92090621929. 1
- 92090621930. 2

92090621931. 3

92090621932. 4

Question Number : 84 Question Id : 9209065547 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 : An icosahedron is a regular polyhedron with 60 equilateral triangular faces and 20 vertices.

Statement II : The simplest virion consists of a nucleocapsid, which is composed of nucleic acid, either DNA or RNA, and a protein coat called a capsid

In the light of the above statements, choose the correct 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 :

92090621933. 1

92090621934. 2

92090621935. 3

92090621936. 4

Question Number : 84 Question Id : 9209065547 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 : विंशतिजलक एक नियमित बहुजलक है जिसमें 60 समबाहु त्रिकोणीय जलक तथा 20 शीर्ष (कोने) होते हैं ।

कथन II : सरलतम वाइरियाँ एक न्यूक्लियोकैप्सिड से बना होता है जो न्यूक्लियक अम्ल, डीएनए अथवा आरएनए और एक प्रोटीन परत जिसे कौप्सिड कहते हैं, से मिलकर बनाता है ।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

92090621933. 1
92090621934. 2
92090621935. 3
92090621936. 4

Question Number : 85 Question Id : 9209065548 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 : Electron transport via the respiratory chain creates a proton gradient which drives the synthesis of ATP.

Statement II : Peter Mitchell, postulates that two processes are coupled by a proton gradient across the inner mitochondrial membrane so that the proton motive force caused by the electrochemical potential difference drives the production of ATP.

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

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Options :

92090621937. 1
92090621938. 2
92090621939. 3
92090621940. 4

Question Number : 85 Question Id : 9209065548 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 : शवसन श्रंखला के माध्यम से वहित होने वाला एलेक्ट्रॉन प्रोटोन प्रवणता का सर्जन करता है जो एटीपी के संश्लेषण को परिचालित करना है ।

कथन II : पीटर मिशैल का मत है कि प्रोटोन प्रवणता द्वारा अंत माईटोकॉन्ड्रियल झिल्ली के आर-पार डो प्रक्रियाओं को संयोजित किया जाता है जिससे बहुत रसायनिक विभावांतर के कारण होने वाला प्रोटोन प्रेरित बल एटीपी के उत्पादन को परिचालित करता है ।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही उत्तरका 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 :

92090621937. 1
92090621938. 2
92090621939. 3
92090621940. 4

Question Number : 86 Question Id : 9209065549 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 : The Northern and Western blotting techniques are used to size and quantify RNA and proteins molecules, respectively

Statement II : In blotting technique, molecules are transferred from gel to the membrane by capillary action.

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

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Options :

92090621941. 1
92090621942. 2
92090621943. 3
92090621944. 4

Question Number : 86 Question Id : 9209065549 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 : उत्तरी तथा पश्चिमी शोषी तकनीकों का उपयोग क्रमशः आरएनए और प्रोटीन अणुओं को आमापित व मात्रित करने के लिए किया जाता है ।

कथन II : शोषी तकनीक में, केशिकीय क्रिया द्वारा अणुओं को जैल से झिल्ली में स्थानान्तरित किया जाता है।

उपरोक्त कथन के आलोक में, नीचे दिए गए विकल्पों में से सही 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 :

92090621941. 1

92090621942. 2

92090621943. 3

92090621944. 4

Question Number : 87 Question Id : 9209065550 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 diploved eukaryotie species, homologous chromosome can exchange Piece with each other a phenomenn called

Which of the following statement are TRUE?

- (A) The crossing over event occurs during prophase of meiosis
- (B) Crossing over can change the comination of alleles along a chromosome and produce recombinant offsprings
- (C) T.H. Morgan proposed that nonparental offersprings are produced by crossing over
- (D) Crossing over does not produce recombinant offspring
- (E) The crossing over event occurs during meiosis II

Choose the correct answer from the options given below :

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

Options :

92090621945. 1

92090621946. 2

92090621947. 3

92090621948. 4

Question Number : 87 Question Id : 9209065550 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

द्विगुणित युतेरियोटीक स्पीशीज़ में, समजात गुणसूत्रों द्वारा एक दूसरे के साथ को आधान प्रधान करता इस परिघटना को कहते हैं ।

निम्न में से कौन सा कथन सत्य है ।

- (A) विनिमयज की घटना अर्धासूत्रण I की पूर्वावस्था के दौरान घटित होती है
- (B) विनिमयज द्वारा एलेक्स के संयोजन को एक गुणसूत्र के साथ साथ बदलकर पूर्णयोगज संततियों को उत्पन्न किया जा सकता है
- (C) टीएच मार्गन ने प्रस्तावित किया कि विनिमयज द्वारा अपैतृर्क संततियों को उत्पन्न किया जा सकता है
- (D) विनिमयज द्वारा पुर्णयोगज संततियाँ उत्पन्न नहीं होती
- (E) विनिमयज की घटना अर्धासूत्रण II के दौरान घटित होती है

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621945. 1

92090621946. 2

92090621947. 3

92090621948. 4

Question Number : 88 Question Id : 9209065551 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

Key effects of Genetic Drift are

- (A) Significant in small populations
- (B) Cause allele frequencies to change at random
- (C) Lead to a loss of genetic variation within populations
- (D) Cause harmful alleles to become fixed
- (E) Significant in extremely large population size

Choose the correct answer from the options given below :

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

Options :

92090621949. 1

92090621950. 2

92090621951. 3

92090621952. 4

Question Number : 88 Question Id : 9209065551 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

अनुवांशिक विचलन के प्रमुख प्रभाव हैं

- (A) कम जनसंख्या में सार्थक है
- (B) विकल्पी आवृत्तियों के यादृच्छकीय परिवर्तन करता है
- (C) किसी जनसंख्या में अनुवांशिक परिवर्तन के द्वारा जनसंख्याओ अग्रसर करता है
- (D) हानिकारक विकल्पों को स्थिर करता है
- (E) अति वृहत जनसंख्या में सार्थक होता है

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621949. 1

92090621950. 2

92090621951. 3

92090621952. 4

Question Number : 89 Question Id : 9209065552 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 are the examples of cytokines?

- (A) Titin
- (B) Interferons
- (C) Colony stimulating factors (CSFs)
- (D) Interleukins
- (E) Ferritin

Choose the correct answer from the options given below :

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

Options :

92090621953. 1

92090621954. 2

92090621955. 3

92090621956. 4

Question Number : 89 Question Id : 9209065552 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 साइटोकाइन के कौन से उदाहरण हैं

- (A) टाइटीन
- (B) इटरफेरोन
- (C) निवह उत्प्रेरीकारक (CSFS)
- (D) इंटरल्यूंकिन
- (E) फेरिटिन

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621953. 1

92090621954. 2

92090621955. 3

92090621956. 4

**Question Number : 90 Question Id : 9209065553 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 of the following is correct about biogeochemical cycling?

- (A) The cycling between inorganic (CO₂) and organic carbon occurs aerobically and anaerobically by the microbes.
- (B) Biogeochemical cycle is not energised by solar energy
- (C) Phosphorus is cycled in its oxidized state, phosphate and there is no gaseous form
- (D) Methane is a green house gas of increasing concern due to its low global warming potential
- (E) Nitrogen, phosphorus and sulfur cycle have gaseous component only

Choose the correct answer from the options given below :

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

Options :

92090621957. 1

92090621958. 2

92090621959. 3

92090621960. 4

Question Number : 90 Question Id : 9209065553 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

जैवभूशसनिक चक्रण के विषय में निम्न में से कौन सा कथन सही है

- (A) आकार्बनिक (CO₂) तथा कार्बनिक कार्बन में चक्रण वायवीय तथा अवायवीय सूक्ष्मजीवों के द्वारा होता है
- (B) जैवभूरसायनिक चक्रण को सौर ऊर्जा द्वारा ऊर्जा की प्राप्ति नहीं होती
- (C) फॉस्फोरस का चक्रण उसको आक्सीकृत अवस्था, फॉस्फेट के द्वारा होता है तथा इसमें कोई गैसीय रूप नहीं होता
- (D) मीथेन एक ग्रीन हाउस गैस है जिसका सरोकार इसकी निम्न ग्लोबल वार्मिंग क्षमता चक्रण कारण बढ़ता जा रहा है
- (E) नाइट्रोजन, फॉस्फोरस तथा सल्फर में केवल गैसीय घटक है

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

- 92090621957. 1
- 92090621958. 2
- 92090621959. 3
- 92090621960. 4

Question Number : 91 Question Id : 9209065554 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

Food-borne bacteria that cause acute bacterial vomiting and diarrhea

- (A) *Shigella sp.*
- (B) *Salmonella sp*
- (C) *Pseudomonas aeruginosa*
- (D) *Clostridium tetani*
- (E) *Yersinia enterocolitica*

Choose the correct answer from the options given below :

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

Options :

92090621961. 1

92090621962. 2

92090621963. 3

92090621964. 4

Question Number : 91 Question Id : 9209065554 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

खाद्य द्वारा उत्पन्न जीवाणु जो तीक्ष्ण जीवाणु वमन तथा अतिसार का कारण बनता है

- (A) शिजेला *sp*
- (B) सैलमोनेला *sp*
- (C) स्ट्रिप्टोकोकस एरोजीनॉक्स
- (D) क्लोस्ट्रीडियम टेटेनी
- (E) यरसीनिया एन्टेरोथोलीटिका

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

- 92090621961. 1
- 92090621962. 2
- 92090621963. 3
- 92090621964. 4

Question Number : 92 Question Id : 9209065555 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

Polymerase chain reaction is a laboratory technique for generating large quantities of a specified DNA. The essential requirement for PCR are;

- (A) A target DNA
- (B) Polymerases and ligase enzymes
- (C) Two primers and a DNA polymerase
- (D) Four deoxyribonucleotides
- (E) Nitrocellulose memberance

Choose the correct answer from the options given below :

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

Options :

- 92090621965. 1
- 92090621966. 2
- 92090621967. 3
- 92090621968. 4

Question Number : 92 Question Id : 9209065555 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

पोलीमेरेस श्रंखला अभिक्रिया बड़ी मात्रा में किसी विशिष्ट डीएनए के उत्पन्न करने के लिए प्रयुक्त होन वाली एक प्रयोगशाला तकनीक है इसके आवश्यक घटक ये है

- (A) एक लक्षित डीएनए
- (B) पोलिमेरेस तथा लीगेस एंजाइम
- (C) दो प्रारम्भक तथा एक डीएनए पोलिमेरेस
- (D) चार डी ऑक्सी राईबोन्यूक्लीयोटाइडस
- (E) नाइटोसैल्यूलोस झिल्ली

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621965. 1

92090621966. 2

92090621967. 3

92090621968. 4

Question Number : 93 Question Id : 9209065556 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 linked with β -oxidation of fatty acids?

- (A) Activation of fatty acids
- (B) Break down of fatty acids in cytoplasm
- (C) Transport of fatty acids into mitochondria
- (D) β - oxidation in kreb cycle
- (E) β - oxidation in mitochondrial matrix

Choose the correct answer from the options given below :

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

Options :

92090621969. 1
92090621970. 2
92090621971. 3
92090621972. 4

Question Number : 93 Question Id : 9209065556 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 वसा अम्लों के ऑक्सीकरण से संबंधित है

- (A) वसा अम्लों का सक्रियण
- (B) वसा अम्लों का कोशिकाद्रव्य में टूटना
- (C) वसा अम्लों का माईटोकांड्रिया में वहन
- (D) क्रेब चक्रण में β -अक्सीकरण
- (E) माईटोकांड्रिया आव्यूह में आक्सीकरण

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621969. 1
92090621970. 2
92090621971. 3
92090621972. 4

Question Number : 94 Question Id : 9209065557 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

Choose the correct answer from the Match List I with List II :

List I	List II
(A) <i>Withania</i>	(I) Morphine
(B) <i>Papaver</i>	(II) Quinine
(C) <i>Rauwolfia</i>	(III) Aswagandha
(D) <i>Cinchona</i>	(IV) Reserpine

Choose the correct answer from the options given below :

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

Options :

92090621973. 1
92090621974. 2
92090621975. 3
92090621976. 4

Question Number : 94 Question Id : 9209065557 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) <i>विदानिया</i>	(I) मॉर्फिन
(B) <i>पापावर</i>	(II) क्विनीन (कुनैन)
(C) <i>रॉवॉल्फिया</i>	(III) अश्वगंधा
(D) <i>चिंचोना</i>	(IV) रिसर्पिन

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621973. 1

92090621974. 2

92090621975. 3

92090621976. 4

Question Number : 95 Question Id : 9209065558 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

Choose the correct answer from the Match List I with List II :

List I	List II
(A) DNA ase I	(I) Degrades single stranded DNA
(B) RNA ase H	(II) Add nucleotides to the 3' end of DNA
(C) S ₁ nuclease	(III) It produces singls stranded niculls in DNA/nicks
(D) Terminal transferase	(IV) Degrades the RNA portion of a DNA – RNA hybrid

Choose the correct answer from the options given below :

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

Options :

92090621977. 1

92090621978. 2

92090621979. 3

92090621980. 4

Question Number : 95 Question Id : 9209065558 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) डीएनए ase I	(I) एक सूत्री डीएनए निम्नीकृत करता है
(B) आरएनए ase II	(II) डीएनए के 3' छोरों पर न्यूक्लियोज जमा करता है
(C) S ₁ न्यूक्लियोज	(III) यहाँ डीएनए में एक सूत्री उत्पन्न करता है
(D) अंत्य अभिगमन	(IV) DNA – RNA संकर के RNA भाग को निम्नीकृत करता

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621977. 1
92090621978. 2
92090621979. 3
92090621980. 4

Question Number : 96 Question Id : 9209065559 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

Choose the correct answer from the Match List I with List II :

List I	List II
(A) Hexokinase	(I) 2 – phosphoglycerate to phosphoenol pyruvate (PEP)
(B) Pyruvate kinase	(II) Fructose 1 – 6 bisphosphate to Glyceraldehyde 3 – phosphate and DHAP
(C) Aldolase	(III) Glucose to glucose – 6 – phosphate
(D) Enolase	(IV) Phosphoenol pyruvate (PEP) to pyruvate

Choose the correct answer from the options given below :

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

Options :

92090621981. 1
92090621982. 2
92090621983. 3
92090621984. 4

Question Number : 96 Question Id : 9209065559 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) हैक्सोकाइनेज	(I) 2-फॉस्फोग्लिसरेट को फॉस्फोएनोल पायरुवेट (PEP)
(B) पायरुवेट	(II) फ्रूक्टोज 1-6 बाइसल्फेट को ग्लिसर एल्डिहाइड-3-फॉस्फेट तथा (DHAP) में
(C) आल्डेकेज	(III) ग्लूकोज को ग्लूकोज-6- फॉस्फेट
(D) ईनोलेज	(IV) फॉस्फोएनोल पायरुवेट को पायरुवेट में

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621981. 1
92090621982. 2
92090621983. 3
92090621984. 4

Question Number : 97 Question Id : 9209065560 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

Choose the correct answer from the Match List I with List II :

List I	List II
(A) Florescence microscopy	(I) Light is the source for illumination
(B) Darkfield microscopy	(II) Streams of electrons are deflected by an electromagnetic filed
(C) Electron microscopy	(III) Light is scattered at boundaries between regions having different refractive indices
(D) Light microscopy	(IV) Tissue sections are examined under UV light, near the visible spectrum and component are recognizable by the fluorecence they emit in the visible spectrum.

Choose the correct answer from the options given below :

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

Options :

92090621985. 1
92090621986. 2
92090621987. 3
92090621988. 4

Question Number : 97 Question Id : 9209065560 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) प्रतिदीप्त सूक्ष्मदर्शिकी	(I) प्रकाश प्रदीप्ति का स्रोत है
(B) अदीप्त क्षेत्र सूक्ष्मदर्शिकी	(II) इलेक्ट्रॉनों की धाराएँ वैद्युत चुम्बकीय क्षेत्र के द्वारा विकेपित होती है
(C) इलेक्ट्रॉन सूक्ष्मदर्शिकी	(III) भिन्न-भिन्न अपवर्तनांकों वाले क्षेत्रों की सीमाओं में प्रकाश का भिखराव होता है
(D) प्रकाश सूक्ष्मदर्शिकी	(IV) पराबैंगनी प्रकाश में ऊतकों द्वारा साव का परीक्षणी दृश्यमान स्पैक्ट्रम के पास किया जाता है तथा वहाँ उनके द्वारा उत्साहित प्रतिदीप्ति में घटकों को पहचाना जाता है

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621985. 1
92090621986. 2
92090621987. 3
92090621988. 4

Question Number : 98 Question Id : 9209065561 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

Choose the correct answer from the Match List I with List II :

List I	List II
(A) Vancomycin	(I) <i>Bacillus subtilis</i>
(B) Bacitracin	(II) <i>Streptomyces nodosus</i>
(C) Streptomycin	(III) <i>Streptomyces griseus</i>
(D) Amphotericin	(IV) <i>Streptomyces orientalis</i>

Choose the correct answer from the options given below :

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

Options :

92090621989. 1
92090621990. 2
92090621991. 3
92090621992. 4

Question Number : 98 Question Id : 9209065561 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) वैकोमाइसिन	(I) बैसीलस सबटिलिस
(B) बैसीट्रेसिन	(II) स्ट्रेप्टोमाइसिस नोडोलस
(C) स्ट्रेप्टोमाइसिन	(III) स्ट्रेप्टोमाइसिस ग्रिसेन्स
(D) एम्फोटैरिसिन	(IV) स्ट्रेप्टोमाइसिस ओरिएन्टेलिस

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621989. 1
92090621990. 2
92090621991. 3
92090621992. 4

Question Number : 99 Question Id : 9209065562 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

Choose the correct answer from the Match List I with List II :

List I	List II
DNA Replication Protein	Function
(A) DNA Polymerase III	(I) Binds to ter sequences and prevents the advancement of the replications work
(B) DNA Polymerase I	(II) Synthesizes DNA in the leading and lagging strands
(C) DNA ligase	(III) Removes RNA Primers, fills in gaps with DNA.
(D) Tus	(IV) Covalently attaches adjacent Okazaki fragments.

Choose the correct answer from the options given below :

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

Options :

- 92090621993. 1
- 92090621994. 2
- 92090621995. 3
- 92090621996. 4

Question Number : 99 Question Id : 9209065562 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) डी एन ए पोलिमेरेज़ III	(I) क्रमों को बाँधता है तथा प्रतिकृति स्वरित्र की उन्नति को रोकता है
(B) डी एन ए पोलिमेरेज़ I	(II) डी एन ए के अग्र तथा परिवेष्टि तंतुओं में संश्लेषित करता है
(C) डी एन ए लीगेज़	(III) आर एन ए प्रारम्भकों को हटाता है, डी एन ए के अंतरालों को भरता है
(D) टस	(IV) सहसंयोजक रूप से निकटवर्ती खंडों को संयोजित करता है

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621993. 1
92090621994. 2
92090621995. 3
92090621996. 4

Question Number : 100 Question Id : 9209065563 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

Choose the correct answer from the Match List I with List II :

List I Phylum	List II Salient features.
(A) Porifera	(I) Body Segmentation like Rings
(B) Ctenophora	(II) Body with pores and canals in Walls
(C) Platyhelminthes	(III) Comb plates for locomotion
(D) Annelida	(IV) Flat body, suckers.

Choose the correct answer from the options given below :

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

Options :

92090621997. 1
92090621998. 2
92090621999. 3
92090622000. 4

Question Number : 100 Question Id : 9209065563 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) पोरीफेरा	(I) वलयों की तरह के कायिक खंड
(B) टीनोफोरा	(II) शरीर में रंध्र तथा भित्तियों में विशाखाएँ
(C) प्लेटीहेल्मिन्थीज	(III) गमन के लिए कंकती प्लेटे (कॉम्ब)
(D) एनीलिडा	(IV) चपटा शरीर , चूषक

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए:

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

Options :

92090621997. 1

92090621998. 2

92090621999. 3

92090622000. 4