

National Testing Agency

Question Paper Name :	Bioinformatics Eng 14th June 2023 Shift 1
Subject Name :	Bioinformatics Eng
Creation Date :	2023-06-15 01:36:30
Duration :	120
Total Marks :	400
Display Marks:	Yes

Bioinformatics

Group Number :	1
Group Id :	920906165
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 :	920906329
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 :	920906535
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 92090616602 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

TOI's Tiger Anthem celebrates the 'biggest superstars' of India

A mother with her child, lilting music, and a message that celebrates a milestone. India's first tiger anthema – a song and a short film on a tigress and her cub-composed and created as a part of Time of India's #savingourstripes initiative, was launched by Union environment minister Bhupender Yadav on Wednesday. TOI's initiative marks the golden jubilee of project tiger.

Shantanu Moitra, music director of films like "3 Idiots" and "Parineeta", composed the song. "Usually, I compose songs for Bollywood superstars, but after working on this anthem, I have realized that the tiger is the biggest superstar," he said. Acclaimed wildlife filmmaker S Nallamuthu shot the visuals, and poet/lyricist Tanveer Ghazi penned the words.

The short film celebrates the bond between a tigress and her cub. The target audience for the foot-tapping song is today's children, who will have to carry forward the spirit that made project Tiger a world-class success.

Launching the anthem, Yadav praised it for focusing on the simple joys of nature and for reminding humans that animals aren't greedy.

Sub questions

Question Number : 1 Question Id : 92090616603 Question Type : MCQ Option Shuffling : No 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 option does not mean 'lift'?

- (1) A gentel rhythm in a tune.
- (2) A cheerful tune.
- (3) The detachable frong part of a gun carriage.
- (4) A characteristic rising and salling of the voice.

Options :

- 92090665601. 1
- 92090665602. 2
- 92090665603. 3
- 92090665604. 4

Question Number : 2 Question Id : 92090616604 Question Type : MCQ Option Shuffling : No 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 : TOI's initiative marks the silver jubilee of project Tiger.

Statement II : Acclaimed wildlife filmmaker S. Nallamuthu shot the visuals.

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 :

92090665605. 1

92090665606. 2

92090665607. 3

92090665608. 4

Question Number : 3 Question Id : 92090616605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who is the music director of the films "3 Idiots" and "Parineeta"?

- (1) Shantanu
- (2) S. Nallanuthu
- (3) Bhupender Yadav
- (4) Tanveer Ghazi

Options :

92090665609. 1

92090665610. 2

92090665611. 3

92090665612. 4

Question Number : 4 Question Id : 92090616606 Question Type : MCQ Option Shuffling : No 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 meaning of the term 'acclaim'?

- (1) Praise enthusiastically and publicly
- (2) Claim again
- (3) Accentuate
- (4) Accentor

Options :

92090665613. 1

92090665614. 2

92090665615. 3

92090665616. 4

Question Number : 5 Question Id : 92090616607 Question Type : MCQ Option Shuffling : No 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 union minister was present in the TOI's tiger Anthem ceremony?

- (1) Minister of finance
- (2) Minister of home affairs
- (3) Minister of children welfare
- (4) Minister of environment

Options :

92090665617. 1

92090665618. 2

92090665619. 3

92090665620. 4

Question Id : 92090616602 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

TOI's Tiger Anthem celebrates the 'biggest superstars' of India

A mother with her child, lilting music, and a message that celebrates a milestone. India's first tiger anthema – a song and a short film on a tigress and her cub-composed and created as a part of Time of India's #savingourstripes initiative, was launched by Union environment minister Bhupender Yadav on Wednesday. TOI's initiative marks the golden jubilee of project tiger.

Shantanu Moitra, music director of films like "3 Idiots" and "Parineeta", composed the song. "Usually, I compose songs for Bollywood superstars, but after working on this anthem, I have realized that the tiger is the biggest superstar," he said. Acclaimed wildlife filmmaker S Nallamuthu shot the visuals, and poet/lyricist Tanveer Ghazi penned the words.

The short film celebrates the bond between a tigress and her cub. The target audience for the foot-tapping song is today's children, who will have to carry forward the spirit that made project Tiger a world-class success.

Launching the anthem, Yadav praised it for focusing on the simple joys of nature and for reminding humans that animals aren't greedy.

Sub questions

Question Number : 1 Question Id : 92090616603 Question Type : MCQ Option Shuffling : No 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 option does not mean 'lift'?

- (1) A gentel rhythm in a tune.
- (2) A cheerful tune.
- (3) The detachable frong part of a gun carriage.
- (4) A characteristic rising and salling of the voice.

Options :

- 92090665601. 1
- 92090665602. 2
- 92090665603. 3
- 92090665604. 4

Question Number : 2 Question Id : 92090616604 Question Type : MCQ Option Shuffling : No 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 : TOI's initiative marks the silver jubilee of project Tiger.

Statement II : Acclaimed wildlife filmmaker S. Nallamuthu shot the visuals.

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 :

- 92090665605. 1
- 92090665606. 2
- 92090665607. 3
- 92090665608. 4

Question Number : 3 Question Id : 92090616605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Who is the music director of the films "3 Idiots" and "Parineeta"?

- | | |
|---------------------|-------------------|
| (1) Shantanu | (2) S. Nallanuthu |
| (3) Bhupender Yadav | (4) Tanveer Ghazi |

Options :

- 92090665609. 1
- 92090665610. 2
- 92090665611. 3
- 92090665612. 4

Question Number : 4 Question Id : 92090616606 Question Type : MCQ Option Shuffling : No 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 meaning of the term 'acclaim'?

- (1) Praise enthusiastically and publicly
- (2) Claim again
- (3) Accentuate
- (4) Accentor

Options :

- 92090665613. 1
- 92090665614. 2
- 92090665615. 3
- 92090665616. 4

Question Number : 5 Question Id : 92090616607 Question Type : MCQ Option Shuffling : No 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 union minister was present in the TOI's tiger Anthem ceremony?

- (1) Minister of finance
- (2) Minister of home affairs
- (3) Minister of children welfare
- (4) Minister of environment

Options :

- 92090665617. 1
- 92090665618. 2
- 92090665619. 3
- 92090665620. 4

Sub-Section Number :

2

Sub-Section Id :

920906536

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 6 Question Id : 92090616608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the antonym of 'purify'.

- (1) Corrective
- (2) Pure
- (3) Contaminate
- (4) Clumsy

Options :

- 92090665621. 1
- 92090665622. 2
- 92090665623. 3

92090665624. 4

Question Number : 6 Question Id : 92090616608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the antonym of 'purify'.

- | | |
|-----------------|------------|
| (1) Corrective | (2) Pure |
| (3) Contaminate | (4) Clumsy |

Options :

- 92090665621. 1
- 92090665622. 2
- 92090665623. 3
- 92090665624. 4

Question Number : 7 Question Id : 92090616609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the meaning of the underlined idiom in the following sentence.

At last, the truth has come out.

- | | |
|--------------|----------------|
| (1) confided | (2) escaped |
| (3) evaded | (4) transpired |

Options :

- 92090665625. 1
- 92090665626. 2
- 92090665627. 3
- 92090665628. 4

Question Number : 7 Question Id : 92090616609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the meaning of the underlined idiom in the following sentence.

At last, the truth has come out.

- | | |
|--------------|----------------|
| (1) confided | (2) escaped |
| (3) evaded | (4) transpired |

Options :

- 92090665625. 1
- 92090665626. 2
- 92090665627. 3
- 92090665628. 4

Question Number : 8 Question Id : 92090616610 Question Type : MCQ Option Shuffling : No 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 active voice form of the following sentence.

Dry fruits are sold by Jawahar.

- | | |
|-------------------------------|----------------------------------|
| (1) Jawahar sold dry fruits. | (2) Jawahar has sold dry fruits. |
| (3) Jawahar sells dry fruits. | (4) Jawahar had sold dry fruits. |

Options :

- 92090665629. 1
- 92090665630. 2
- 92090665631. 3
- 92090665632. 4

Question Number : 8 Question Id : 92090616610 Question Type : MCQ Option Shuffling : No 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 active voice form of the following sentence.

Dry fruits are sold by Jawahar.

- | | |
|-------------------------------|----------------------------------|
| (1) Jawahar sold dry fruits. | (2) Jawahar has sold dry fruits. |
| (3) Jawahar sells dry fruits. | (4) Jawahar had sold dry fruits. |

Options :

- 92090665629. 1
- 92090665630. 2
- 92090665631. 3

Question Number : 9 Question Id : 92090616611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the synonym of the word Optimist.

- | | |
|------------------|-------------|
| (1) Destructive | (2) Hopeful |
| (3) Disappointed | (4) Funny |

Options :

- 92090665633. 1
- 92090665634. 2
- 92090665635. 3
- 92090665636. 4

Question Number : 9 Question Id : 92090616611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Pick out the synonym of the word Optimist.

- | | |
|------------------|-------------|
| (1) Destructive | (2) Hopeful |
| (3) Disappointed | (4) Funny |

Options :

- 92090665633. 1
- 92090665634. 2
- 92090665635. 3
- 92090665636. 4

Question Number : 10 Question Id : 92090616612 Question Type : MCQ Option Shuffling : No 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 sentence.

- (1) I know what he done came as a shock.
- (2) I know which he did came as a shock.
- (3) I know what he did came as a shock.
- (4) I know which he done came as a shock.

Options :

92090665637. 1
92090665638. 2
92090665639. 3
92090665640. 4

Question Number : 10 Question Id : 92090616612 Question Type : MCQ Option Shuffling : No 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 sentence.

- (1) I know what he done came as a shock.
- (2) I know which he did came as a shock.
- (3) I know what he did came as a shock.
- (4) I know which he done came as a shock.

Options :

92090665637. 1
92090665638. 2
92090665639. 3
92090665640. 4

Question Number : 11 Question Id : 92090616613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Member of Parliament will lose his membership if he is continuously absent from his sessions for :

- | | |
|-------------|--------------|
| (1) 30 days | (2) 60 days |
| (3) 90 days | (4) 120 days |

Options :

92090665641. 1
92090665642. 2
92090665643. 3
92090665644. 4

Question Number : 11 Question Id : 92090616613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Member of Parliament will lose his membership if he is continuously absent from his sessions for :

- | | |
|-------------|--------------|
| (1) 30 days | (2) 60 days |
| (3) 90 days | (4) 120 days |

Options :

- 92090665641. 1
- 92090665642. 2
- 92090665643. 3
- 92090665644. 4

Question Number : 12 Question Id : 92090616614 Question Type : MCQ Option Shuffling : No 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 World Meteorology Day is celebrated on:

- | | |
|----------------|-----------------|
| (1) March 16th | (2) April 20th |
| (3) May 20th | (4) August 20th |

Options :

- 92090665645. 1
- 92090665646. 2
- 92090665647. 3
- 92090665648. 4

Question Number : 12 Question Id : 92090616614 Question Type : MCQ Option Shuffling : No 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 World Meteorology Day is celebrated on:

- | | |
|----------------|-----------------|
| (1) March 16th | (2) April 20th |
| (3) May 20th | (4) August 20th |

Options :

- 92090665645. 1
- 92090665646. 2
- 92090665647. 3
- 92090665648. 4

Question Number : 13 Question Id : 92090616615 Question Type : MCQ Option Shuffling : No 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 film introduced playback singing in india?

- | | |
|------------------------|---------------------|
| (1) Raja Harishchandra | (2) Life of Krishna |
| (3) Alam Ara | (4) Mughal-e-Azam |

Options :

- 92090665649. 1
- 92090665650. 2
- 92090665651. 3
- 92090665652. 4

Question Number : 13 Question Id : 92090616615 Question Type : MCQ Option Shuffling : No 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 film introduced playback singing in india?

- | | |
|------------------------|---------------------|
| (1) Raja Harishchandra | (2) Life of Krishna |
| (3) Alam Ara | (4) Mughal-e-Azam |

Options :

- 92090665649. 1
- 92090665650. 2
- 92090665651. 3
- 92090665652. 4

Question Number : 14 Question Id : 92090616616 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identity the correct combination of the diseases against which MMR vaccine is used:

- | | |
|-----------------------------------|-----------------------------------|
| (1) Measles, Mumps, Rubella | (2) Malaria, Mumps, Rubella |
| (3) Malaria, Malnutrition, Rabies | (4) Measles, Malnutrition, Rabies |

Options :

- 92090665653. 1
- 92090665654. 2
- 92090665655. 3
- 92090665656. 4

Question Number : 14 Question Id : 92090616616 Question Type : MCQ Option Shuffling : No 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 combination of the diseases against which MMR vaccine is used:

- | | |
|-----------------------------------|-----------------------------------|
| (1) Measles, Mumps, Rubella | (2) Malaria, Mumps, Rubella |
| (3) Malaria, Malnutrition, Rabies | (4) Measles, Malnutrition, Rabies |

Options :

- 92090665653. 1
- 92090665654. 2
- 92090665655. 3
- 92090665656. 4

Question Number : 15 Question Id : 92090616617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In which city Food Corporation of India established the first food museum?

- | | |
|-------------|---------------|
| (1) Kolkata | (2) Mohali |
| (3) Lucknow | (4) Thanjavur |

Options :

- 92090665657. 1
- 92090665658. 2
- 92090665659. 3
- 92090665660. 4

Question Number : 15 Question Id : 92090616617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In which city Food Corporation of India established the first food museum?

- | | |
|-------------|---------------|
| (1) Kolkata | (2) Mohali |
| (3) Lucknow | (4) Thanjavur |

Options :

- 92090665657. 1
- 92090665658. 2
- 92090665659. 3
- 92090665660. 4

Question Number : 16 Question Id : 92090616618 Question Type : MCQ Option Shuffling : No 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 number in the following series :

21, 35, 53, 75, _____

(1) 105

(2) 109

(3) 101

(4) 99

Options :

92090665661. 1

92090665662. 2

92090665663. 3

92090665664. 4

Question Number : 16 Question Id : 92090616618 Question Type : MCQ Option Shuffling : No 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 number in the following series :

21, 35, 53, 75, _____

(1) 105

(2) 109

(3) 101

(4) 99

Options :

92090665661. 1

92090665662. 2

92090665663. 3

92090665664. 4

Question Number : 17 Question Id : 92090616619 Question Type : MCQ Option Shuffling : No 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 following question has one statement and three conclusions. Check the conclusions on the basis of the statement and choose the correct option.

Statement :

Meena is the only daughter of Mr. & Mrs. Joshi.

Conclusion :

(i) Mr. & Mrs. Joshi have two children.

(ii) Meena has no brother.

(iii) Meena has a step brother.

(1) Only (i) follows

(2) Only (ii) follows

(3) Only (i) and (iii) follows

(4) None of them follows

Options :

92090665665. 1

92090665666. 2

92090665667. 3

92090665668. 4

Question Number : 17 Question Id : 92090616619 Question Type : MCQ Option Shuffling : No 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 following question has one statement and three conclusions. Check the conclusions on the basis of the statement and choose the correct option.

Statement :

Meena is the only daughter of Mr. & Mrs. Joshi.

Conclusion :

(i) Mr. & Mrs. Joshi have two children.

(ii) Meena has no brother.

(iii) Meena has a step brother.

(1) Only (i) follows

(2) Only (ii) follows

(3) Only (i) and (iii) follows

(4) None of them follows

Options :

92090665665. 1

92090665666. 2

92090665667. 3

92090665668. 4

Question Number : 18 Question Id : 92090616620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In the question, statement and assumptions are given. Consider the statement and choose the correct option from the following on the basis of the assumptions

Statement :

A multinational company has started displaying the list of Holidays of the year on the internet rather than displaying on the notice board.

Assumptions:

- (i) All the employees have internet facility at home.
 - (ii) Most of the employees referred to the list on both notice board and internet earlier.
- (1) Only (i) is implicit
 - (2) Only (ii) is implicit
 - (3) Neither (i) nor (ii) is implicit
 - (4) Both (i) and (ii) are implicit

Options :

- 92090665669. 1
- 92090665670. 2
- 92090665671. 3
- 92090665672. 4

Question Number : 18 Question Id : 92090616620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In the question, statement and assumptions are given. Consider the statement and choose the correct option from the following on the basis of the assumptions

Statement :

A multinational company has started displaying the list of Holidays of the year on the internet rather than displaying on the notice board.

Assumptions:

- (i) All the employees have internet facility at home.
 - (ii) Most of the employees referred to the list on both notice board and internet earlier.
- (1) Only (i) is implicit
 - (2) Only (ii) is implicit
 - (3) Neither (i) nor (ii) is implicit
 - (4) Both (i) and (ii) are implicit

Options :

- 92090665669. 1
- 92090665670. 2
- 92090665671. 3
- 92090665672. 4

Question Number : 19 Question Id : 92090616621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

V is wife of R. T is brother of V. S is the mother of R. W is father-in-law of V. Y is mother-in-law of S. How is V related to Y?

- (1) Niece
- (2) Grand daughter
- (3) Grand daughter-in-law
- (4) Daughter-in-law

Options :

- 92090665673. 1
- 92090665674. 2
- 92090665675. 3
- 92090665676. 4

Question Number : 19 Question Id : 92090616621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

V is wife of R. T is brother of V. S is the mother of R. W is father-in-law of V. Y is mother-in-law of S. How is V related to Y?

- | | |
|---------------------------|---------------------|
| (1) Niece | (2) Grand daughter |
| (3) Grand daughter-in-law | (4) Daughter-in-law |

Options :

92090665673. 1
92090665674. 2
92090665675. 3
92090665676. 4

Question Number : 20 Question Id : 92090616622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Some girls are sitting in a row. Kamla is sitting 10th from left and Veena is 7th from right. They have 10 girls in between them. How many girls are sitting in the row?

- | | |
|--------|--------|
| (1) 18 | (2) 27 |
| (3) 28 | (4) 29 |

Options :

92090665677. 1
92090665678. 2
92090665679. 3
92090665680. 4

Question Number : 20 Question Id : 92090616622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Some girls are sitting in a row. Kamla is sitting 10th from left and Veena is 7th from right. They have 10 girls in between them. How many girls are sitting in the row?

- | | |
|--------|--------|
| (1) 18 | (2) 27 |
| (3) 28 | (4) 29 |

Options :

92090665677. 1
92090665678. 2
92090665679. 3
92090665680. 4

Question Number : 21 Question Id : 92090616623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Values of K for which the quadratic equation $2x^2 - Kx + K = 0$ has equal roots are:

- | | |
|----------|----------|
| (1) 8, 4 | (2) 4, 4 |
| (3) 0, 4 | (4) 0, 8 |

Options :

- 92090665681. 1
- 92090665682. 2
- 92090665683. 3
- 92090665684. 4

Question Number : 21 Question Id : 92090616623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Values of K for which the quadratic equation $2x^2 - Kx + K = 0$ has equal roots are:

- | | |
|----------|----------|
| (1) 8, 4 | (2) 4, 4 |
| (3) 0, 4 | (4) 0, 8 |

Options :

- 92090665681. 1
- 92090665682. 2
- 92090665683. 3
- 92090665684. 4

Question Number : 22 Question Id : 92090616624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Cost price of 100 copies of a book is equal to the selling price of 60 copies of the same book. The gain or loss percentage is:

- | | |
|-----------------------|-----------------------|
| (1) $66\frac{2}{3}\%$ | (2) $67\frac{1}{2}\%$ |
| (3) 67% | (4) 66% |

Options :

- 92090665685. 1
- 92090665686. 2
- 92090665687. 3

Question Number : 22 Question Id : 92090616624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Cost price of 100 copies of a book is equal to the selling price of 60 copies of the same book. The gain or loss percentage is:

- | | |
|-----------------------|-----------------------|
| (1) $66\frac{2}{3}\%$ | (2) $67\frac{1}{2}\%$ |
| (3) 67% | (4) 66% |

Options :

92090665685. 1
92090665686. 2
92090665687. 3
92090665688. 4

Question Number : 23 Question Id : 92090616625 Question Type : MCQ Option Shuffling : No 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, B, C and D entered into a partnership. 'A' contributed one-third of the capital, 'B' contributed one-fourth, 'C' contributed one-fifth and 'D' contributed the rest. All four of them agreed to share profit in the ratio of their capital. What is the share of 'D' when total profit is ₹ 6000?

- | | |
|-------------|-------------|
| (1) ₹ 2,000 | (2) ₹ 1,600 |
| (3) ₹ 1,200 | (4) ₹ 1,300 |

A, B, C और D एक साझेदारी शुरू करते हैं। 'A' कुल पूंजी के एक तिहाई भाग का योगदान करता है, 'B' एक चौथाई भाग का योगदान करता है, 'C' एक-पाँचवें भाग का योगदान करता है और शेष योगदान 'D' करता है। वे चारों इस बात पर सहमत होते हैं कि वे अपनी पूंजी के अनुपात में ही लाभ लेंगे। यदि कुल लाभ ₹.6,000 है तो इसमें 'D' का भाग कितना है?

- | | |
|-------------|-------------|
| (1) ₹ 2,000 | (2) ₹ 1,600 |
| (3) ₹ 1,200 | (4) ₹ 1,300 |

Options :

92090665689. 1
92090665690. 2
92090665691. 3
92090665692. 4

Question Number : 23 Question Id : 92090616625 Question Type : MCQ Option Shuffling : No 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, B, C and D entered into a partnership. 'A' contributed one-third of the capital, 'B' contributed one-fourth, 'C' contributed one-fifth and 'D' contributed the rest. All four of them agreed to share profit in the ratio of their capital. What is the share of 'D' when total profit is ₹ 6000?

- | | |
|-------------|-------------|
| (1) ₹ 2,000 | (2) ₹ 1,600 |
| (3) ₹ 1,200 | (4) ₹ 1,300 |

A, B, C और D एक साझेदारी शुरू करते हैं। 'A' कुल पूंजी के एक तिहाई भाग का योगदान करता है, 'B' एक चौथाई भाग का योगदान करता है, 'C' एक-पाँचवें भाग का योगदान करता है और शेष योगदान 'D' करता है। वे चारों इस बात पर सहमत होते हैं कि वे अपनी पूंजी के अनुपात में ही लाभ लेंगे। यदि कुल लाभ ₹ 6,000 है तो इसमें 'D' का भाग कितना है?

- | | |
|-------------|-------------|
| (1) ₹ 2,000 | (2) ₹ 1,600 |
| (3) ₹ 1,200 | (4) ₹ 1,300 |

Options :

- 92090665689. 1
- 92090665690. 2
- 92090665691. 3
- 92090665692. 4

Question Number : 24 Question Id : 92090616626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Aman travels from P to Q at a speed of 40 km/hour and returns to P by increasing his speed by 50%. What is his average speed for the entire journey?

- | | |
|----------------|----------------|
| (1) 36 km/hour | (2) 45 km/hour |
| (3) 48 km/hour | (4) 50 km/hour |

Options :

- 92090665693. 1
- 92090665694. 2
- 92090665695. 3
- 92090665696. 4

Question Number : 24 Question Id : 92090616626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Aman travels from P to Q at a speed of 40 km/hour and returns to P by increasing his speed by 50%. What is his average speed for the entire journey?

- | | |
|----------------|----------------|
| (1) 36 km/hour | (2) 45 km/hour |
| (3) 48 km/hour | (4) 50 km/hour |

Options :

92090665693. 1
92090665694. 2
92090665695. 3
92090665696. 4

Question Number : 25 Question Id : 92090616627 Question Type : MCQ Option Shuffling : No 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 pipes 'A' and 'B' can fill a cistern in 4 minutes and 6 minutes, respectively. If these pipes are turned on alternately for 1 minute each (pipe 'A' is opened first), then how long will it take for the cistern to fill?

- | | |
|--------------------------|--------------------------|
| (1) 4 minutes 48 seconds | (2) 3 minutes 20 seconds |
| (3) 4 minutes 50 seconds | (4) 3 minutes 30 seconds |

Options :

92090665697. 1
92090665698. 2
92090665699. 3
92090665700. 4

Question Number : 25 Question Id : 92090616627 Question Type : MCQ Option Shuffling : No 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 pipes 'A' and 'B' can fill a cistern in 4 minutes and 6 minutes, respectively. If these pipes are turned on alternately for 1 minute each (pipe 'A' is opened first), then how long will it take for the cistern to fill?

- | | |
|--------------------------|--------------------------|
| (1) 4 minutes 48 seconds | (2) 3 minutes 20 seconds |
| (3) 4 minutes 50 seconds | (4) 3 minutes 30 seconds |

Options :

92090665697. 1
92090665698. 2
92090665699. 3
92090665700. 4

Part B: Bioinformatics

Section Id : 920906330
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 : 920906537
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 26 Question Id : 92090616628 Question Type : MCQ Option Shuffling : No 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 value of integral $\int_0^{\pi/2} \frac{\cos x}{2 \cos x + 3 \sin x} dx$ is:

(1) $\frac{\pi}{13} + \frac{2}{13} \log_e 3 - \frac{3}{13} \log_e 2$

(2) $\frac{\pi}{13} + \frac{2}{13} \log_e 3 + \frac{3}{13} \log_e 2$

(3) $\frac{\pi}{13} + \frac{2}{13} (\log_e 3 - \log_e 2)$

(4) $\frac{\pi}{13} + \frac{2}{13} (\log_e 3 + \log_e 2)$

Options :

92090665701. 1
92090665702. 2
92090665703. 3
92090665704. 4

Question Number : 26 Question Id : 92090616628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

समाकलन $\int_0^{\pi/2} \frac{\cos x}{2\cos x + 3\sin x} dx$ का मान है:

- (1) $\frac{\pi}{13} + \frac{2}{13} \log_e 3 - \frac{3}{13} \log_e 2$ (2) $\frac{\pi}{13} + \frac{2}{13} \log_e 3 + \frac{3}{13} \log_e 2$
 (3) $\frac{\pi}{13} + \frac{3}{13} (\log_e 3 - \log_e 2)$ (4) $\frac{\pi}{13} + \frac{2}{13} (\log_e 3 - \log_e 2)$

Options :

92090665701. 1
 92090665702. 2
 92090665703. 3
 92090665704. 4

Question Number : 27 Question Id : 92090616629 Question Type : MCQ Option Shuffling : No 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 electron acceptor in aerobic respiration is:

- (1) glucose (2) carbon dioxide
 (3) water (4) oxygen

Options :

92090665705. 1
 92090665706. 2
 92090665707. 3
 92090665708. 4

Question Number : 27 Question Id : 92090616629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

वायुवीय श्वसन में इलेक्ट्रान ग्राही है:

- (1) ग्लूकोज (2) कार्बन डाईऑक्साइड
 (3) जल (4) ऑक्सीजन

Options :

92090665705. 1
 92090665706. 2
 92090665707. 3
 92090665708. 4

Question Number : 28 Question Id : 92090616630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Ouchterlong test is :

- (1) Precipitation reaction
- (2) Immunodiffusion test
- (3) Counter current immune electrophoresis test
- (4) Direct agglutination test

Options :

92090665709. 1
92090665710. 2
92090665711. 3
92090665712. 4

Question Number : 28 Question Id : 92090616630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ऑटरलॉग (Ouchterlong) जाँच है:

- (1) अवक्षेपण अभिप्रिया
- (2) इम्यूनोडिफ्यूजन जाँच
- (3) प्रतिधारा प्रतिरक्षा इलैक्ट्रोफोरेसिस (काउन्टर करंट इम्यूनो इलैक्ट्रोफोरेसिस) जाँच
- (4) डाइरेक्ट एग्लुटिनेशन जाँच

Options :

92090665709. 1
92090665710. 2
92090665711. 3
92090665712. 4

Question Number : 29 Question Id : 92090616631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Viruses are devoid of which process/machinery?

- | | |
|--------------------------------------|--------------------------------------|
| (1) Genetic information of their own | (2) Metabolic machinery of their own |
| (3) Protein structure of their own | (4) Genetic material of their own |

Options :

92090665713. 1
92090665714. 2
92090665715. 3
92090665716. 4

Question Number : 29 Question Id : 92090616631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

विषाणुओं में कौन सी प्रक्रिया/मशीनरी का अभाव होता है?

- (1) स्वयं की आनुवंशिक सूचनाओं का
(2) स्वयं की उपापचयी मशीनरी का
(3) स्वयं की प्रोटीन संरचना का
(4) स्वयं की आनुवंशिक द्रव्य का

Options :

92090665713. 1
92090665714. 2
92090665715. 3
92090665716. 4

Question Number : 30 Question Id : 92090616632 Question Type : MCQ Option Shuffling : No 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 conclusions of theoretical and statical explanations of Mendel's experiment was discovered and propounded by:

- | | |
|--------------|-------------|
| (1) Avery | (2) Macleod |
| (3) Mc Carty | (4) Correns |

Options :

92090665717. 1
92090665718. 2
92090665719. 3

92090665720. 4

Question Number : 30 Question Id : 92090616632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मेंडल के प्रयोगों के सैद्धान्तिक और सांख्यिकीय स्पष्टीकरणों का निष्कर्ष _____ के द्वारा खोजा गया और व्याख्या की गई थी।

- | | |
|---------------|-------------|
| (1) एवेरी | (2) मैकलिओड |
| (3) मैककार्ती | (4) कॉरेन्स |

Options :

92090665717. 1
92090665718. 2
92090665719. 3
92090665720. 4

Question Number : 31 Question Id : 92090616633 Question Type : MCQ Option Shuffling : No 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 law of thermodynamics that gives the idea of temperature is:

- | | |
|-----------------------------------|----------------------------------|
| (1) law of conservation of energy | (2) first law of thermodynamics |
| (3) second law of thermodynamics | (4) zeroth law of thermodynamics |

Options :

92090665721. 1
92090665722. 2
92090665723. 3
92090665724. 4

Question Number : 31 Question Id : 92090616633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ऊष्मप्रवेगिकी (थर्मोडायनेमिक्स) का नियम, जो तापमान का सुझाव देता है, वह है:

- | | |
|-------------------------------------|---|
| (1) ऊर्जा के संरक्षण का नियम | (2) थर्मोडायनेमिक्स का प्रथम नियम |
| (3) थर्मोडायनेमिक्स का द्वितीय नियम | (4) थर्मोडायनेमिक्स का शून्यांक (zeroth) नियम |

Options :

- 92090665721. 1
- 92090665722. 2
- 92090665723. 3
- 92090665724. 4

Question Number : 32 Question Id : 92090616634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

One of the valid class declaration is:

- | | |
|------------------------|-------------------------|
| (1) Class B { } | (2) Class B {int x; }; |
| (3) Public Class B { } | (4) Object B {int x; }; |

Options :

- 92090665725. 1
- 92090665726. 2
- 92090665727. 3
- 92090665728. 4

Question Number : 32 Question Id : 92090616634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

वैधवर्ग घोषणाओं (वैलिड क्लास डिक्लेरेशन) में से एक है:

- | | |
|------------------------|---------------------------|
| (1) क्लास B { } | (2) क्लास B {int x; }; |
| (3) पब्लिक क्लास B { } | (4) ऑब्जेक्ट B {int x; }; |

Options :

- 92090665725. 1
- 92090665726. 2
- 92090665727. 3
- 92090665728. 4

Question Number : 33 Question Id : 92090616635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

C++ and Java are examples of:

- | | |
|---|---|
| (1) 1 st generation language | (2) 2 nd generation language |
| (3) 3 rd generation language | (4) 4 th generation language |

Options :

92090665729. 1
92090665730. 2
92090665731. 3
92090665732. 4

Question Number : 33 Question Id : 92090616635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

C++ और जावा, उदाहरण है:

- | | |
|------------------------------|------------------------------|
| (1) प्रथम पीढ़ी की भाषाओं के | (2) दूसरी पीढ़ी की भाषाओं के |
| (3) तीसरी पीढ़ी की भाषाओं के | (4) चौथी पीढ़ी की भाषाओं के |

Options :

92090665729. 1
92090665730. 2
92090665731. 3
92090665732. 4

Question Number : 34 Question Id : 92090616636 Question Type : MCQ Option Shuffling : No 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 true for Nuclear Magnetic Resonance (NMR) spectroscopy:

- (1) It measures the absorbance of ultraviolet frequency waves
- (2) The "NMR active" isotopes of biologically relevant elements include 1H , ^{13}C , ^{15}N and ^{31}P only.
- (3) The "NMR active" isotopes of biologically relevant elements include 1H , ^{17}Cl and ^{31}P only.
- (4) NMR measures the absorbance in radio frequency waves

Options :

92090665733. 1
92090665734. 2
92090665735. 3

Question Number : 34 Question Id : 92090616636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

न्यूक्लियर मैग्नेटिक रेजनेंस (NMR) स्पेक्ट्रोस्कोपी के लिए क्या सत्य है?

- (1) यह पराबैंगनी आवृत्ति की धाराओं के प्रेक्षण का मापन करता है
- (2) जीवविज्ञान प्रासंगिक तत्वों के NMR सक्रिय समस्थानिकों में सम्मिलित हैं, केवल – ^1H , ^{13}C , ^{15}N और ^{31}P
- (3) जीवविज्ञान प्रासंगिक तत्वों के NMR सक्रिय समस्थानिकों में सम्मिलित हैं, केवल – ^1H , ^{17}Cl और ^{31}P
- (4) NMR रेडियो आवृत्ति धाराओं की प्रचुरता का मापन करता है

Options :

92090665733. 1
92090665734. 2
92090665735. 3
92090665736. 4

Question Number : 35 Question Id : 92090616637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The functions $e^x \cos x$ and $e^x \sin x$ are linearly dependant.

Reasons (R) : Two functions are linearly dependent if Wronskian of the functions are zero. i.e. $w(x, y_1, y_2) = 0$.

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

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

Options :

92090665737. 1
92090665738. 2

92090665739. 3

92090665740. 4

Question Number : 35 Question Id : 92090616637 Question Type : MCQ Option Shuffling : No 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 : $e^x \cos x$ और $e^x \sin x$ फलन, रैखिक आश्रित (एक घाततः परतंत्र) (लीनियरली डिपेंडेंट) हैं।

कारण R : दो फलन रैखिक आश्रित (एक घाततः परतंत्र) है, यदि फलनों का ब्रोनस्किन शून्य है, अर्थात् $w(x, y_1, y_2) = 0$

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 :

92090665737. 1

92090665738. 2

92090665739. 3

92090665740. 4

Question Number : 36 Question Id : 92090616638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : DNA duplex molecule has a net negative charge at physiological pH.

Reasons (R) : The DNA molecule contains phosphate groups in its duplex structure.

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 :

- 92090665741. 1
- 92090665742. 2
- 92090665743. 3
- 92090665744. 4

Question Number : 36 Question Id : 92090616638 Question Type : MCQ Option Shuffling : No 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 : कायिक (फौजियोलोजिक) pH पर DNA के द्विरज्जुक (डुप्लेक्स) अणु पर सकल ऋणात्मक आवेश होता है।

कारण R : डीएनए (DNA) अणु की डुप्लेक्स संरचना में फास्फेट समूह 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 :

- 92090665741. 1

92090665742. 2

92090665743. 3

92090665744. 4

Question Number : 37 Question Id : 92090616639 Question Type : MCQ Option Shuffling : No 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 correct steps involved in preparing cDNA of human insulin from its mRNA is:

- (A) Treatment with DNA ase
- (B) Extraction of nucleic acids from the given tissue
- (C) Deactivation of DNA ase
- (D) Deactivation of reverse transcriptase
- (E) Sample running in RT_(q) PCR / PCR

Choose the correct answer from the options given below :

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

Options :

92090665745. 1

92090665746. 2

92090665747. 3

92090665748. 4

Question Number : 37 Question Id : 92090616639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रतीप ट्रांस्क्रिप्टेज का प्रयोग करते हुए मानव इंसुलिन के जीन निर्माण के लिए सम्मिलित चरणों का सही क्रम है:

- (A) DNAase से विवेचन
- (B) उत्तकों से न्युलिक अम्लों का निष्कर्षण
- (C) DNAase का निष्क्रियन
- (D) प्रतीप ट्रांस्क्रिप्टेज का निष्क्रियन
- (E) सैम्पल का RT_(q) PCR / PCR में चलना

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

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

Options :

92090665745. 1

92090665746. 2

92090665747. 3

92090665748. 4

Question Number : 38 Question Id : 92090616640 Question Type : MCQ Option Shuffling : No 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) : Hydrogen bond is important in proteins.

Reasons (R) : Hydrogen bond plays an important role in many organic molecules like DNA molecules.

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 :

- 92090665749. 1
- 92090665750. 2
- 92090665751. 3
- 92090665752. 4

Question Number : 38 Question Id : 92090616640 Question Type : MCQ Option Shuffling : No 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 में हाइड्रोजन आबंध महत्वपूर्ण होते हैं।

कारण R : हाइड्रोजन आबंध, कई कार्बनिक अणुओं जैसे DNA अणु, में महत्वपूर्ण भूमिका निभाते 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 :

- 92090665749. 1
- 92090665750. 2
- 92090665751. 3
- 92090665752. 4

Question Number : 39 Question Id : 92090616641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : The internet is a collection of interconnected computer networks.

Reasons (R) : World Wide Web is a collection of websites or web pages, stored in web servers.

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 :

92090665753. 1
92090665754. 2
92090665755. 3
92090665756. 4

Question Number : 39 Question Id : 92090616641 Question Type : MCQ Option Shuffling : No 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 : इन्टरनेट, परस्पर संबद्धित (जुड़े हुए) कंप्यूटर नेटवर्कों का संग्रह है।

कारण R : वर्ल्ड वाइड वेब, वेबसाइट्स या वेबपेजों का संग्रह है जो वेबसर्वर में स्टोर (भंडारित) होता है।

उपरोक्तकथन 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 व्याख्यानहीं है
- (3) A सही हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

Options :

92090665753. 1

92090665754. 2

92090665755. 3

92090665756. 4

Question Number : 40 Question Id : 92090616642 Question Type : MCQ Option Shuffling : No 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 : In C++ a member function cannot access the data in the class of which it is a member.

Statement II : In C++ virtual function is defined in base class.

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

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

Options :

92090665757. 1

92090665758. 2

92090665759. 3

92090665760. 4

Question Number : 40 Question Id : 92090616642 Question Type : MCQ Option Shuffling : No 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 : C++ में एक सदस्य फलन उस वर्ग में डेटा तक नहीं पहुंचा सकता, जिसमें वह सदस्य है।

कथन II : C++ में आभासी फलन को आधार वर्ग में परिभाषित किया गया 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 :

92090665757. 1
92090665758. 2
92090665759. 3
92090665760. 4

Question Number : 41 Question Id : 92090616643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : DNA Sequences may share high degree of similarity on the basis of which homology or ancestral relationship can be inferred.

Reasons (R) : DNA Sequences (or Organisms) may share function, structure or evolutionary history, therefore can be homologous.

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 :

92090665761. 1
92090665762. 2

92090665763. 3

92090665764. 4

Question Number : 41 Question Id : 92090616643 Question Type : MCQ Option Shuffling : No 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 : DNA अनुक्रम उच्च स्तर की समानता साझा कर सकते हैं, जिनके आधार पर समरूपता या पैतृक संबंध का अनुमान लगाया जा सकता है।

कारण R : DNA अनुक्रम (या जीव), कार्य, संरचना या विकासवादी इतिहास साझा कर सकते हैं, इसलिए समरूप हो 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 हैं, लेकिन R सही नहीं है
- (4) A सही नहीं हैं, लेकिन R सही है

Options :

92090665761. 1

92090665762. 2

92090665763. 3

92090665764. 4

Question Number : 42 Question Id : 92090616644 Question Type : MCQ Option Shuffling : No 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) : Searching a motif database using exact matching has a good chance of missing truly relevant motifs which have slight variation, thus generating false negative results.

Reasons (R) : Fuzzy matches, also called approximate matches, provide permissive matching by allowing more flexible matching of residues of similar biochemical properties.

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

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

Options :

92090665765. 1

92090665766. 2

92090665767. 3

92090665768. 4

Question Number : 42 Question Id : 92090616644 Question Type : MCQ Option Shuffling : No 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 : सटीक मिलान का उपयोग करके एक मोटिफ डेटाबेस की खोज करने से वास्तविकरूप से प्रासंगिक रूपांकनों के गायब होने का एक अच्छा अवसर होता है, जिसमें मामूली भिन्नता होती है, इस प्रकार झूठे नकारात्मक परिणाम उत्पन्न होते हैं।

कारण R : फजी मिलान, जिसे अनुमानित मिलान भी कहा जाता है, समान जैव रासायनिक गुणों के अवशेषों के अधिक लचीले मिलान की अनुमति देकर अनुमेय मिलान प्रदान करते हैं।

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

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

Options :

92090665765. 1

92090665766. 2

92090665767. 3

92090665768. 4

Question Number : 43 Question Id : 92090616645 Question Type : MCQ Option Shuffling : No 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 need to deal with the ever increasing flood of information has spawned the field of Bioinformatics.

Statement II : There is a requirement of generation of information from large amount of data generated through sequencing techniques, therefore bioinformatics is of great need.

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

- (1) Both Statement I and Statement II are 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 :

- 92090665769. 1
- 92090665770. 2
- 92090665771. 3
- 92090665772. 4

Question Number : 43 Question Id : 92090616645 Question Type : MCQ Option Shuffling : No 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 : सदैव बढ़ती हुई सूचनाओं की बाढ़ से निपटने के लिए जैव सूचना विज्ञान की उत्पत्ति हुई।

कथन II : अनुक्रम तकनीकों के द्वारा बड़ी मात्रा में डेटा जनित्र होने से सूचनाओं के जनित्र होने आवश्यकता है, इसलिए जैव सूचना विज्ञान बड़ी आवश्यकता है।

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

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

Options :

- 92090665769. 1
- 92090665770. 2

92090665771. 3

92090665772. 4

Question Number : 44 Question Id : 92090616646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Read the following statement:

- (A) BLAST is used for performing multiple sequence alignment.
- (B) BLAST is used for performing homology search of input molecule.
- (C) BLAST_n stands for protein BLAST.
- (D) FASTA is a sequence alignment tool/algorithm
- (E) FASTA is a format for sequence representation using single letter code.

Choose the most appropriate answer from the options given below :

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

Options :

92090665773. 1

92090665774. 2

92090665775. 3

92090665776. 4

Question Number : 44 Question Id : 92090616646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित कथनों को पढ़कर सही कथनों का चयन कीजिए:

- (A) BLAST का प्रयोग गुणित अनुक्रम संरक्षण के निष्पादन के लिए होता है।
- (B) BLAST का प्रयोग निवेश अणु की खोज में समजातता निष्पादन के लिए होता है।
- (C) BLAST_n का अर्थ प्रोटीन ब्लास्ट होता है।
- (D) FASTA एक अनुक्रम संरक्षण साधन /कलन है।
- (E) FASTA एक अक्षर कूट का प्रयोग करके अनुक्रम अभिव्यक्त करने का फॉर्मेट है।

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

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

Options :

- 92090665773. 1
- 92090665774. 2
- 92090665775. 3
- 92090665776. 4

Question Number : 45 Question Id : 92090616647 Question Type : MCQ Option Shuffling : No 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

- (A) Genbank
- (B) DDBJ
- (C) SWISS PROT
- (D) PDB

List II

- (I) Houses information of 3D structural coordinates
- (II) Manually annotated protein database in Uniprot.
- (III) One of the member of International Nucleotide Sequence Database Collaboration (INSDC)
- (IV) Nucleotide sequence database at NCBI

Choose the correct answer from the options given below:

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

Options :

- 92090665777. 1
- 92090665778. 2
- 92090665779. 3
- 92090665780. 4

Question Number : 45 Question Id : 92090616647 Question Type : MCQ Option Shuffling : No 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) जेनबैंक (GENBANK)	(I) 3-D आकारिकीय निर्देशांक सूचनाओं का आवास
(B) DDBJ	(II) यूनिप्रोट में प्रोटीन डेटाबेस का हस्तचालित सूचीकरण
(C) स्विस् पोर्ट (SWISS PORT)	(III) अन्तर्राष्ट्रीय न्यूक्लियोटाइड अनुक्रम डेटाबेस सहयोग (INSDC) का एक सदस्य
(D) PDB	(IV) न्यूक्लियोटाइड अनुक्रम डेटाबेस नियम (NCBI)

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

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

Options :

92090665777. 1
92090665778. 2
92090665779. 3
92090665780. 4

Question Number : 46 Question Id : 92090616648 Question Type : MCQ Option Shuffling : No 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 differential equation $m(x, y)dx + N(x, y)dy = 0$ is an exact differential equation, if:

- | | |
|--|---|
| (1) $\frac{\partial m}{\partial y} + \frac{\partial N}{\partial x} = 0$ | (2) $\frac{\partial m}{\partial y} - \frac{\partial N}{\partial x} = 1$ |
| (3) $\frac{\partial m}{\partial y} \times \frac{\partial N}{\partial x} = 1$ | (4) $\frac{\partial m}{\partial y} - \frac{\partial N}{\partial x} = 0$ |

Options :

92090665781. 1
92090665782. 2
92090665783. 3
92090665784. 4

Question Number : 46 Question Id : 92090616648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अवकलन समीकरण $m(x, y)dx + N(x, y)dy = 0$ एक सटीक अवकलन समीकरण है, यदि:

(1) $\frac{\partial m}{\partial y} + \frac{\partial N}{\partial x} = 0$

(2) $\frac{\partial m}{\partial y} - \frac{\partial N}{\partial x} = 1$

(3) $\frac{\partial m}{\partial y} \times \frac{\partial N}{\partial x} = 1$

(4) $\frac{\partial m}{\partial y} - \frac{\partial N}{\partial x} = 0$

Options :

92090665781. 1

92090665782. 2

92090665783. 3

92090665784. 4

Question Number : 47 Question Id : 92090616649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Proteinaceous infectious particles are known as:

(1) Virus

(2) Viroids

(3) Virusoids

(4) Prions

Options :

92090665785. 1

92090665786. 2

92090665787. 3

92090665788. 4

Question Number : 47 Question Id : 92090616649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रोटीनयुक्त संक्रमणीय कणों को कहते हैं :

(1) विषाणु

(2) वाइराइड्स

(3) वायरुजोइड्स

(4) प्रोसंक (प्रिओन्स)

Options :

92090665785. 1
92090665786. 2
92090665787. 3
92090665788. 4

Question Number : 48 Question Id : 92090616650 Question Type : MCQ Option Shuffling : No 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 correct sequence of structural organization in viruses (from smallest unit to biggest structure):

- (1) Capsomere → Capsid → Protomers
(2) Protomers → Capsid → Capsomere
(3) Protomers → Capsomeres → Capsid
(4) Capsid → Protomers → Capsomeres

Options :

92090665789. 1
92090665790. 2
92090665791. 3
92090665792. 4

Question Number : 48 Question Id : 92090616650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

विषाणुओं में संरचनात्मक संगठन का सही अनुक्रम (सबसे छोटी इकाई से सबसे बड़ी संरचना) है:

- (1) कैप्सोमीयर → कैप्सिड → प्रोटोमीयर (2) प्रोटोमीयर → कैप्सिड → कैप्सोमीयर
(3) प्रोटोमीयर → कैप्सोमीयर → कैप्सिड (4) कैप्सिड → प्रोटोमीयर → कैप्सोमीयर

Options :

92090665789. 1
92090665790. 2
92090665791. 3
92090665792. 4

Question Number : 49 Question Id : 92090616651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Cyclic AMP receptor protein (CRP) binds to cyclic AMP (cAMP) molecules and form a cAMP – CRP complex which is required for :

- | | |
|-----------------|--------------------|
| (1) translation | (2) transformation |
| (3) replication | (4) transcription |

Options :

92090665793. 1
92090665794. 2
92090665795. 3
92090665796. 4

Question Number : 49 Question Id : 92090616651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चक्रीय AMP ग्राही प्रोटीन (CRP) चक्रीय AMP (cAMP) अणुओं से आबन्ध करके cAMP - CRP सम्मिश्र बनाता है, जिसकी आवश्यकता होती है :

- | | |
|-------------------------------|------------------------|
| (1) रूपांतरण (ट्रांसलेशन) में | (2) ट्रांसफॉर्मेशन में |
| (3) प्रतिकृतियन में | (4) अनुलेखन में |

Options :

92090665793. 1
92090665794. 2
92090665795. 3
92090665796. 4

Question Number : 50 Question Id : 92090616652 Question Type : MCQ Option Shuffling : No 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 emitted by human body is

- | | |
|----------------------------|-----------------------------|
| (1) X-ray | (2) infra radiations |
| (3) ultra violet radiation | (4) visible range radiation |

Options :

92090665797. 1
92090665798. 2
92090665799. 3
92090665800. 4

Question Number : 50 Question Id : 92090616652 Question Type : MCQ Option Shuffling : No 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 शरीर से उत्सर्जित विकिरण होता है:

- | | |
|----------------------|-----------------------------------|
| (1) X-किरणें (Ray) | (2) अवरक्त लाल (Infra red) विकिरण |
| (3) पराबैंगनी विकिरण | (4) दृश्य प्रकाश विकिरण |

Options :

- 92090665797. 1
- 92090665798. 2
- 92090665799. 3
- 92090665800. 4

Question Number : 51 Question Id : 92090616653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which one is not the C++ type of constructor?

- | | |
|-------------------------|-------------------------------|
| (1) Copy constructor | (2) Function Constructor |
| (3) Default Constructor | (4) Parameterised Constructor |

Options :

- 92090665801. 1
- 92090665802. 2
- 92090665803. 3
- 92090665804. 4

Question Number : 51 Question Id : 92090616653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन C++ प्रकार का निर्माता (कंस्ट्रक्टर) नहीं है?

- | | |
|----------------------------------|---------------------------|
| (1) प्रतिलिपि निर्माता | (2) फलन निर्माता |
| (3) अनुपस्थित (डिफाल्ट) निर्माता | (4) पैरामीटराइज्ड निर्माण |

Options :

- 92090665801. 1
- 92090665802. 2
- 92090665803. 3

Question Number : 52 Question Id : 92090616654 Question Type : MCQ Option Shuffling : No 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 algorithm for local sequence alignment is:

- | | |
|----------------------------------|--------------------------------|
| (1) Needleman – Wunsch Algorithm | (2) Smith – Waterman Algorithm |
| (3) Support Vector Machine | (4) Decision Tree Algorithm |

Options :

- 92090665805. 1
- 92090665806. 2
- 92090665807. 3
- 92090665808. 4

Question Number : 52 Question Id : 92090616654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

स्थानीय अनुक्रम संरेखण के लिए कलन विधि है:

- | | |
|------------------------|-------------------------|
| (1) नीडलमेन – वुंश कलन | (2) स्मिथ – वाटरमेन कलन |
| (3) सहायक वेक्टर यंत्र | (4) मुक्त निर्णय कलन |

Options :

- 92090665805. 1
- 92090665806. 2
- 92090665807. 3
- 92090665808. 4

Question Number : 53 Question Id : 92090616655 Question Type : MCQ Option Shuffling : No 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) : Genome is more complex than proteome which is more complex than glycome.

Reasons (R) : Genome is static, but proteome includes all possible protein products and modified proteins that a cell expresses under any particular set of circumstances.

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

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

Options :

- 92090665809. 1
- 92090665810. 2
- 92090665811. 3
- 92090665812. 4

Question Number : 53 Question Id : 92090616655 Question Type : MCQ Option Shuffling : No 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 (Reasons (R)) के रूप में :

अभिकथन (A) : जीनोम, प्रोटियोम से अधिक जटिल है, जोकि ग्लाइकोम से अधिक जटिल है।

कारण (R) : जीनोम स्थिर होता है, परन्तु प्रोटियोम में सभी सम्भव प्रोटीन उत्पाद, रूपांतरित प्रोटीन, जो कोशिका विशेष परिस्थितियों में अभिव्यक्त करती है, सम्मिलित होते हैं।

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

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

Options :

- 92090665809. 1
- 92090665810. 2
- 92090665811. 3
- 92090665812. 4

Question Number : 54 Question Id : 92090616656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Capsule of bacterial cells are made up of:

- (1) Extracellular polymeric substances (EPS)
- (2) Intracellular polymeric substances (IPS)
- (3) Low-density polyethylene (LDPE)
- (4) High-density polyethylene (HDPE)

Options :

- 92090665813. 1
- 92090665814. 2
- 92090665815. 3
- 92090665816. 4

Question Number : 54 Question Id : 92090616656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जीवाणु कोशिका की संपुटिका (केप्सूल) बना होता है:

- (1) बाह्यकोशिकीय बहुलकी पदार्थों (EPS) से
- (2) अन्तः कोशिकीय बहुलकी पदार्थों (IPS) से
- (3) कम घनत्व वाले पॉलीइथाइलीन (LDPE) से
- (4) उच्च घनत्व वाले पॉलीइथाइलीन (MDPE) से

Options :

- 92090665813. 1
- 92090665814. 2
- 92090665815. 3
- 92090665816. 4

Question Number : 55 Question Id : 92090616657 Question Type : MCQ Option Shuffling : No 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 number of electrons exist in a p-orbital is:

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

Options :

- 92090665817. 1
- 92090665818. 2
- 92090665819. 3
- 92090665820. 4

Question Number : 55 Question Id : 92090616657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

p-ऑर्बिटल में इलेक्ट्रॉन की संख्या होती है :

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

Options :

- 92090665817. 1
- 92090665818. 2
- 92090665819. 3
- 92090665820. 4

Question Number : 56 Question Id : 92090616658 Question Type : MCQ Option Shuffling : No 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 location where TCA cycle operates is:

- | | |
|--------------------------|---------------------------|
| (1) Nucleus | (2) Endoplasmic reticulum |
| (3) Mitochondrial matrix | (4) Chloroplast |

Options :

- 92090665821. 1
- 92090665822. 2
- 92090665823. 3
- 92090665824. 4

Question Number : 56 Question Id : 92090616658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

TCA चक्र _____ में घटित होता है :

- | | |
|--|-----------------------------|
| (1) केन्द्रक | (2) अन्तर्द्रव्यी जालिका |
| (3) माइटोकॉन्ड्रिय आधात्री (मैट्रिक्स) | (4) हरितलवक (क्लोरोप्लास्ट) |

Options :

- 92090665821. 1
- 92090665822. 2
- 92090665823. 3
- 92090665824. 4

Question Number : 57 Question Id : 92090616659 Question Type : MCQ Option Shuffling : No 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 for loop statement which is correct according to C++ programming language is:

- | | |
|--------------|---------------|
| (1) for (,) | (2) for (, ;) |
| (3) for (;) | (4) for (; ;) |

Options :

- 92090665825. 1
- 92090665826. 2
- 92090665827. 3
- 92090665828. 4

Question Number : 57 Question Id : 92090616659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

फॉर लूप कथन, जो C++ प्रोग्रामिंग भाषा के लिए सत्य है, वह है:

- | | |
|--------------|---------------|
| (1) for (,) | (2) for (, ;) |
| (3) for (;) | (4) for (; ;) |

Options :

- 92090665825. 1
- 92090665826. 2
- 92090665827. 3

Question Number : 58 Question Id : 92090616660 Question Type : MCQ Option Shuffling : No 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 one which works as intermediary between the computer user and hardware is:

- | | |
|---------------------|----------------------|
| (1) Microcontroller | (2) Device Driver |
| (3) Hardware | (4) Operating System |

Options :

92090665829. 1
92090665830. 2
92090665831. 3
92090665832. 4

Question Number : 58 Question Id : 92090616660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कम्प्यूटर प्रयोगकर्ता और हार्डवेयर के बीच जो मध्यस्थ की तरह कार्य करता है, वह है :

- | | |
|---------------------------------------|--------------------------------|
| (1) सूक्ष्मनियंत्रक (Microcontroller) | (2) उपकरण चालक (Device Driver) |
| (3) हार्डवेयर | (4) ऑपरेटिंग सिस्टम |

Options :

92090665829. 1
92090665830. 2
92090665831. 3
92090665832. 4

Question Number : 59 Question Id : 92090616661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

IEEE standard of wired LAN is :

- | | |
|-----------------|-----------------|
| (1) IEEE 802.3 | (2) IEEE 802.11 |
| (3) IEEE 802.15 | (4) IEEE 802.14 |

Options :

92090665833. 1
92090665834. 2

92090665835. 3

92090665836. 4

Question Number : 59 Question Id : 92090616661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

वायर्ड लेन (Wired LAN) के लिए IEEE मानक है :

- | | |
|-----------------|-----------------|
| (1) IEEE 802.3 | (2) IEEE 802.11 |
| (3) IEEE 802.15 | (4) IEEE 802.14 |

Options :

92090665833. 1

92090665834. 2

92090665835. 3

92090665836. 4

Question Number : 60 Question Id : 92090616662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Select the correct sequence of events for catabolism of pyrimidines (cytosine) leading to formation of water soluble end products :

- (A) Dihydrouracil
- (B) β -Alanine, CO_2 , NH_2
- (C) Uracil
- (D) β -Ureidopropionate
- (E) Cytosine

Choose the most appropriate answer from the options given below :

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

Options :

92090665837. 1

92090665838. 2

92090665839. 3

Question Number : 60 Question Id : 92090616662 Question Type : MCQ Option Shuffling : No Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

पिरीमिडीन (साइटोसीन) के अपचयन के लिए जिनसे जल में घुलनशील अन्तिम उत्पाद बनते हैं, परिघटनाओं के उचित अनुक्रम का चयन कीजिए।

- (A) डाइहाइड्रोयूरेसिल
- (B) β - एलेनीन, CO_2 , NH_2
- (C) यूरासिल
- (D) β - यूरीडोप्रोपियोनेट
- (E) साइटोसीन

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

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

Options :

- 92090665837. 1
- 92090665838. 2
- 92090665839. 3
- 92090665840. 4

Question Number : 61 Question Id : 92090616663 Question Type : MCQ Option Shuffling : No 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 : Double antibody sandwich ELISA method used to detect antigen.

Statement II : A chromogenic substrate (nitrophenyl, phosphate) added to react with enzyme and develop yellow colour.

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 :

- 92090665841. 1
- 92090665842. 2
- 92090665843. 3
- 92090665844. 4

Question Number : 61 Question Id : 92090616663 Question Type : MCQ Option Shuffling : No 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 : दोहरा प्रतिरक्षी सैंडविच (एलाइजा) विधि का प्रयोग प्रतिजन का पता लगाने में होता है।

कथन II : एंजाइम से अभिक्रिया करने के लिए और पीले वर्णक को लाने के लिए एक वर्णोकोप्पादकी पदार्थ (नाइट्रोफिनाइल फॉस्फेट) मिलाया जाता है।

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

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

Options :

- 92090665841. 1
- 92090665842. 2
- 92090665843. 3
- 92090665844. 4

Question Number : 62 Question Id : 92090616664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Select the correct statements:

- (A) Haemagglutination is a phenomenon of clumping RBC.
- (B) Neutralization test is useful in diagnosis of viral infections in humans.
- (C) Antigens are known as antitoxins.
- (D) Antibodies are known as antitoxins.

Choose the most appropriate answer from the options given below :

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

Options :

- 92090665845. 1
- 92090665846. 2
- 92090665847. 3
- 92090665848. 4

Question Number : 62 Question Id : 92090616664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सही कथनों का चयन कीजिए:

- (A) हीमएग्लूटिनेशन आर बी सी क्लंपिंग की एक परिघटना है।
- (B) मानव में विषाणवीय जाँच की पहचान के लिए उदासीनीकरण जांच लाभदायक है।
- (C) प्रतिजन को प्रतिविष भी कहा जाता है।
- (D) प्रतिरक्षी को प्रतिविष भी कहा जाता है।

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

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

Options :

- 92090665845. 1
- 92090665846. 2
- 92090665847. 3
- 92090665848. 4

Question Number : 63 Question Id : 92090616665 Question Type : MCQ Option Shuffling : No 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 : GM counter can detect X-rays and γ rays with high efficiency.

Statement II : GM counter cannot detect low energy radiation.

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

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

Options :

- 92090665849. 1
- 92090665850. 2
- 92090665851. 3
- 92090665852. 4

Question Number : 63 Question Id : 92090616665 Question Type : MCQ Option Shuffling : No 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 : जी एम गणक उच्च प्रवणता से X-किरणों और Y किरणों की पहचान कर सकता है।

कथन II : जी एम गणक निम्न ऊर्जा विकिरण की पहचान नहीं कर सकता।

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

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

Options :

92090665849. 1

92090665850. 2

92090665851. 3

92090665852. 4

Question Number : 64 Question Id : 92090616666 Question Type : MCQ Option Shuffling : No 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
Radiation	Wavelengths
(A) UV	(I) 400 nm to 700 nm
(B) Visible	(II) 1 nm to 400 nm
(C) Infrared	(III) 1 nm to 10^{-3} nm
(D) X-ray	(IV) 1 mm to 700 nm

Choose the correct answer from the options given below:

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

Options :

92090665853. 1
92090665854. 2
92090665855. 3
92090665856. 4

Question Number : 64 Question Id : 92090616666 Question Type : MCQ Option Shuffling : No 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
विकिरण	तरंगदैर्घ्य
(A) UV	(I) 400 nm से 700 nm
(B) दृश्य प्रकाश	(II) 1 nm से 400 nm
(C) अवरक्त	(III) 1 nm से 10^{-3} nm
(D) X-किरणें (Ray)	(IV) 1 nm से 700 nm

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

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

Options :

92090665853. 1
92090665854. 2
92090665855. 3
92090665856. 4

Question Number : 65 Question Id : 92090616667 Question Type : MCQ Option Shuffling : No 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) : C++ is an object oriented language.

Reasons (R) : C++ supports the inheritance which is an attribute of object oriented language.

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

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

Options :

- 92090665857. 1
- 92090665858. 2
- 92090665859. 3
- 92090665860. 4

Question Number : 65 Question Id : 92090616667 Question Type : MCQ Option Shuffling : No 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 (Reasons (R)) के रूप में :

अभिकथन (A) : C++ एक वस्तु उन्मुख भाषा है।

कारण (R) : C++ इनहेरिटेस का समर्थन करता है जो वस्तु उन्मुख भाषा की एक विशेषण 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 :

- 92090665857. 1

92090665858. 2

92090665859. 3

92090665860. 4

Question Number : 66 Question Id : 92090616668 Question Type : MCQ Option Shuffling : No 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 correct sequence to enter a formula in MS excel that contains a built in function is:

- (A) Type an equal sign (=) and then type a function
- (B) Select the range of cells, and type a closing parenthesis [)].
- (C) Press enter to get the result.
- (D) Type an opening parenthesis [(].
- (E) Select an empty cell.

The correct sequence in doing the task is :

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

Options :

92090665861. 1

92090665862. 2

92090665863. 3

92090665864. 4

Question Number : 66 Question Id : 92090616668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एम एस एक्सेल में एक सूत्र दर्ज करने का सही अनुक्रम जिसमें एक अंतर्निहित फलन होता है, वह है:

- (A) एक बराबर (=) का चिह्न टाइप करें और इसके बाद फलन टाइप करें।
- (B) सैल के प्रसार का चयन करें और इसके पश्चात् समापन कोष्ठक [] टाइप करें।
- (C) परिणाम प्राप्त करने के लिए एंटर दबाएं।
- (D) प्रारम्भ कोष्ठक [(] टाइप करें।
- (E) एक खाली सैल का चयन करें।

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

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

Options :

- 92090665861. 1
- 92090665862. 2
- 92090665863. 3
- 92090665864. 4

Question Number : 67 Question Id : 92090616669 Question Type : MCQ Option Shuffling : No 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 : In CMY color model, one (1) represents the primary color and zero (0) represents the lightest color.

Statement II : In CMY model, point (1, 1, 1) represents black, and (0, 0, 0) represents white.

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 :

92090665865. 1

92090665866. 2

92090665867. 3

92090665868. 4

Question Number : 67 Question Id : 92090616669 Question Type : MCQ Option Shuffling : No 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 : CMY वर्ण प्रारूप में एक (1) प्राथमिक वर्ण को और शून्य (0) सबसे हल्के वर्ण को अभिव्यक्त करता है।

कथन II : CMY प्रारूप में, बिन्दु (1, 1, 1) काले को और (0, 0, 0) श्वेत को अभिव्यक्त करता है।

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

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

Options :

- 92090665865. 1
- 92090665866. 2
- 92090665867. 3
- 92090665868. 4

Question Number : 68 Question Id : 92090616670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Hidden Markov Model can be used for:

- (A) Predicting weather
- (B) Hand writing recognition
- (C) Speech recognition
- (D) Natural Language Processing
- (E) Finance

Choose the most appropriate answer from the options given below :

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

Options :

- 92090665869. 1
- 92090665870. 2
- 92090665871. 3
- 92090665872. 4

Question Number : 68 Question Id : 92090616670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

छिपा हुआ चिह्नक प्रारूप (हिडन मार्कव मॉडल) का प्रयोग किया जा सकता है।

- (A) मौसम का पूर्वानुमान लगाने में
- (B) हस्तलिपि की पहचान करने में
- (C) वाणी की पहचान करने में
- (D) प्राकृतिक भाषा प्रसंस्करण में
- (E) वित्त में

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

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

Options :

92090665869. 1

92090665870. 2

92090665871. 3

92090665872. 4

Question Number : 69 Question Id : 92090616671 Question Type : MCQ Option Shuffling : No 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) 'C' language | (I) Java c |
| (B) C++ language | (II) gcc |
| (C) Java | (III) g++ |
| (D) Fortran | (IV) G Fortran |

Choose the correct answer from the options given below:

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

Options :

- 92090665873. 1
- 92090665874. 2
- 92090665875. 3
- 92090665876. 4

Question Number : 69 Question Id : 92090616671 Question Type : MCQ Option Shuffling : No 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) C भाषा (लैंग्वेज)	(I) जावा C (Java C)
(B) C++ भाषा	(II) GCC
(C) जावा	(III) G++
(D) फॉरट्रान	(IV) G फॉरट्रान

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

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

Options :

- 92090665873. 1
- 92090665874. 2
- 92090665875. 3
- 92090665876. 4

Question Number : 70 Question Id : 92090616672 Question Type : MCQ Option Shuffling : No 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) : There is a requirement of generation of information out of the data stored in primary data bases (sequence databases as an example)

Reasons (R) : Secondary database like Interpro and Prosite are developed to provide functional analysis of proteins by classifying them into families and predicting domains and important sites, therefore are responsible for generating next information.

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 :

92090665877. 1

92090665878. 2

92090665879. 3

92090665880. 4

Question Number : 70 Question Id : 92090616672 Question Type : MCQ Option Shuffling : No 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 (Reasons (R)) के रूप में :

अभिकथन (A) : प्राथमिक डेटाबेस में संग्रहित (उदाहरणार्थ - अनुक्रम डेटाबेस) से सूचनाओं के एकीकरण जनित्र किए जाने की आवश्यकता है।

कारण (R) : द्वितीय डेटाबेस जैसे अन्तः समीपस्थ (इंटर प्रो) और प्रोसाइट का विकास, प्रोटीन को कार्यात्मक विश्लेषण प्रदान करने के लिए और उनको परिवारों (फैमिलीज) में वर्गीकृत करके और महत्वपूर्ण कार्यक्षेत्र के पूर्वानुमान के लिए किया जाता है। इसलिए ये अगली जानकारी उत्पन्न करने के लिए उत्तरदायी 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 :

- 92090665877. 1
- 92090665878. 2
- 92090665879. 3
- 92090665880. 4

Question Number : 71 Question Id : 92090616673 Question Type : MCQ Option Shuffling : No 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 for protein characterization using 2-D gel and Mass Spectrometry (MS) is

- (A) Protein sample preparation
- (B) Trypsin digestion to generate peptide
- (C) Peptide identification through database search
- (D) Separation on 2D-gel and extraction of spots.
- (E) Automated MS analysis

Choose the correct answer from the options given below :

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

Options :

- 92090665881. 1
- 92090665882. 2
- 92090665883. 3
- 92090665884. 4

Question Number : 71 Question Id : 92090616673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

2-D जेल और मास स्पेक्ट्रोमेट्री का उपयोग करके प्रोटीन लक्षण वर्णन के सही अनुक्रम है :

- (A) प्रोटीन नमूने की तैयारी
- (B) ट्रिप्सिन के पाचन से पेप्टाइड बनना
- (C) डेटा बेस खोज के माध्यम से पेप्टाइड की पहचान
- (D) 2-D जेल पर पृथक्करण और नमूनों का निष्कर्षण
- (E) स्वचालित MS विश्लेषण

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

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

Options :

- 92090665881. 1

92090665882. 2

92090665883. 3

92090665884. 4

Question Number : 72 Question Id : 92090616674 Question Type : MCQ Option Shuffling : No 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 : For accuracy in local alignment BLOSUM matrix outperforms PAM.

Statement II : For accuracy in local alignment PAM matrix outperforms BLOSUM matrix.

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

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

Options :

92090665885. 1

92090665886. 2

92090665887. 3

92090665888. 4

Question Number : 72 Question Id : 92090616674 Question Type : MCQ Option Shuffling : No 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 : स्थानीय संरेखण में त्रुटिहीनता के लिए BLOSUM आधात्री (मैट्रिक्स) से बेहतर प्रदर्शन करता है।

कथन II : स्थानीय संरेखण में त्रुटिहीनता के लिए PAM आधात्री (मैट्रिक्स), BLOSUM से बेहतर प्रदर्शन करता है।

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

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

Options :

92090665885. 1

92090665886. 2

92090665887. 3

92090665888. 4

Question Number : 73 Question Id : 92090616675 Question Type : MCQ Option Shuffling : No 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 annotation aims to identify all protein coding genes in the sequence and ultimately their functions.

Statement II : 'Systems Biology' aims to model the dynamic behaviour of whole biological systems based on the study of interactions among the system's part.

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

- (1) Both Statement I and Statement II are 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 :

92090665889. 1

92090665890. 2

92090665891. 3

92090665892. 4

Question Number : 73 Question Id : 92090616675 Question Type : MCQ Option Shuffling : No 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 : जीन व्याख्या का उद्देश्य प्रोटीन कूट करने वाले सभी जीनों का अनुक्रम और अन्ततः उनके कार्यों की पहचान करना है।

कथन II : 'सिस्टम जीव विज्ञान' का उद्देश्य, सिस्टम के हिस्से के बीच पारस्परिक अनुक्रिया के अध्ययन के आधार पर पूरे जैविक सिस्टम के गतिशील व्यवहार को प्रारूपित करना है।

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

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

Options :

92090665889. 1

92090665890. 2

92090665891. 3

92090665892. 4

Question Number : 74 Question Id : 92090616676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Select the correct statements from the following:

- (A) Proteomics is the entire set of expressed proteins in a cell.
- (B) Genomics is the branch of molecular biology concerned with structure, function, evolution and mapping of genes.
- (C) Genetics is a branch that focuses on function and inheritance of specific genes or parts of genes.
- (D) Lipidomics is the large scale study of pathways and networks of cellular lipids in biological systems.

Choose the correct answer from the options given below :

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

Options :

92090665893. 1

92090665894. 2

92090665895. 3

92090665896. 4

Question Number : 74 Question Id : 92090616676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित कथनों में से, सही कथनों का चयन कीजिए:

- (A) प्रोटीमिक्स एक कोशिका में अभिव्यक्त होने वाले प्रोटीनों का संपूर्ण समुच्चय है।
- (B) जीनोमिक्स आण्विक जीव विज्ञान की वह शाखा है जिसका संबंध, जीन की संरचना, कार्य, विकास और आलेखन (मैपिंग) से है।
- (C) आनुवांशिकी वह शाखा है, जो विशिष्ट जीनों या उनके भागों के कार्य और आनुवंशिका पर केन्द्रित है।
- (D) लिपिडोमिक्स, जीव-विज्ञानीय सिस्टम में कोशिकीय वसाओं (लिपिड्स) के पथ और नेटवर्क का वृहद् स्तर पर अध्ययन है।

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

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

Options :

- 92090665893. 1
- 92090665894. 2
- 92090665895. 3
- 92090665896. 4

Question Number : 75 Question Id : 92090616677 Question Type : MCQ Option Shuffling : No 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) Flybase	(I) Biology and genome nematode model organism <i>Caenorhabditis elegans</i>
(B) Wormbase	(II) Database of manually curated protein sequences
(C) SWISS PROT	(III) Database of genetic and molecular biology data for model higher plant <i>Arabidopsis</i> .
(D) TAIR	(IV) Database for <i>Drosophila</i> genetics and molecular information.

Choose the correct answer from the options given below:

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

Options :

92090665897. 1
92090665898. 2
92090665899. 3
92090665900. 4

Question Number : 75 Question Id : 92090616677 Question Type : MCQ Option Shuffling : No 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) फलाई बेस	(I) सूत्रकृमि (नीमटोड) प्रारूप जीव सी. एलीगेंस का जीव विज्ञान और जीनोम
(B) वर्मबेस	(II) हस्तनिर्मित प्रोटीन अनुक्रमों का डेटाबेस
(C) SWISS-PROT	(III) मोड उच्च पादप एराबिडोप्सिस के लिए आनुवंशिक और आण्विक जीव विज्ञान का डेटाबेस
(D) TAIR	(IV) ड्रोसोफिला की आनुवंशिक और आण्विक सूचनाओं का डेटाबेस

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

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

Options :

92090665897. 1
92090665898. 2
92090665899. 3
92090665900. 4

Question Number : 76 Question Id : 92090616678 Question Type : MCQ Option Shuffling : No 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 matrix $A = \frac{1}{3} \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & -2 \\ -2 & 2 & -1 \end{bmatrix}$, then:

- | | |
|-------------------------------|-----------------------------------|
| (1) A is an symmetric matrix | (2) A is an skew symmetric matrix |
| (3) A is an orthogonal matrix | (4) $ A \neq 1$ |

Options :

92090665901. 1
92090665902. 2
92090665903. 3
92090665904. 4

Question Number : 76 Question Id : 92090616678 Question Type : MCQ Option Shuffling : No 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 आव्यूह (मैट्रिक्स) $A = \frac{1}{3} \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & -2 \\ -2 & 2 & -1 \end{bmatrix}$ तो

- (1) A एक सममित (सीमेट्रिक) मैट्रिक्स है। (2) A एक विषम सममित आव्यूह है।
(3) A एक ऑर्थोगोनल सममित है। (4) $|A| \neq 1$

Options :

92090665901. 1
92090665902. 2
92090665903. 3
92090665904. 4

Question Number : 77 Question Id : 92090616679 Question Type : MCQ Option Shuffling : No 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 monomer unit of nucleic acid is called:

- (1) Monosaccharide (2) Nucleotide
(3) Peptide (4) Fatty acid

Options :

92090665905. 1
92090665906. 2
92090665907. 3
92090665908. 4

Question Number : 77 Question Id : 92090616679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

न्यूक्लिक अम्ल की एकलक इकाई कहलाती है:

- (1) मोनोसैकेराइड (2) न्यूक्लियोटाइड
(3) पैप्टाइड (4) वसीय अम्ल

Options :

92090665905. 1

92090665906. 2

92090665907. 3

92090665908. 4

Question Number : 78 Question Id : 92090616680 Question Type : MCQ Option Shuffling : No 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 heavy chain which is present in IgG class of antibody is :

- | | |
|----------------------|--------------------------|
| (1) δ (Delta) | (2) ϵ (Epsilon) |
| (3) α (Alpha) | (4) γ (Gamma) |

Options :

92090665909. 1

92090665910. 2

92090665911. 3

92090665912. 4

Question Number : 78 Question Id : 92090616680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

IgG वर्ग के प्रतिरक्षी में विद्यमान भारी शृंखला है:

- | | |
|-----------------------|---------------------------|
| (1) δ (डेल्टा) | (2) ϵ (एप्सिलोन) |
| (3) α (एल्फा) | (4) γ (गामा) |

Options :

92090665909. 1

92090665910. 2

92090665911. 3

92090665912. 4

Question Number : 79 Question Id : 92090616681 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Crossing an organism of unknown genotype with a recessive homozygote is known as:

- | | |
|----------------|------------------|
| (1) Back cross | (2) Test cross |
| (3) Mutation | (4) Transduction |

Options :

- 92090665913. 1
- 92090665914. 2
- 92090665915. 3
- 92090665916. 4

Question Number : 79 Question Id : 92090616681 Question Type : MCQ Option Shuffling : No 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 अन्जान जीनीप्ररूप (जीनोटोइप) वाले जीव का समयुग्मनजी अप्रभावी जीव से संकरण कहलाता है:

- | | |
|----------------------|------------------------|
| (1) पश्च (बैक) संकरण | (2) परीक्षार्थ संस्करण |
| (3) उत्परिवर्तन | (4) पारगमन |

Options :

- 92090665913. 1
- 92090665914. 2
- 92090665915. 3
- 92090665916. 4

Question Number : 80 Question Id : 92090616682 Question Type : MCQ Option Shuffling : No 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 one which is not an access specifier is :

- | | |
|---------------|-------------|
| (1) Private | (2) Public |
| (3) Protected | (4) Default |

Options :

- 92090665917. 1
- 92090665918. 2
- 92090665919. 3
- 92090665920. 4

Question Number : 80 Question Id : 92090616682 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

इनमें से कौन एक अभिगम विनिर्देशक (एक्सेस स्पेसीफायर) नहीं है?

- | | |
|---------------|---------------|
| (1) व्यक्तिगत | (2) सार्वजनिक |
| (3) आरक्षित | (4) डिफॉल्ट |

Options :

92090665917. 1
92090665918. 2
92090665919. 3
92090665920. 4

Question Number : 81 Question Id : 92090616683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Bioinformatics cannot be applied in (Choose the most appropriate answer)

- | | |
|-----------------------------|--|
| (1) Structure visualization | (2) Structure Prediction |
| (3) Drug designing | (4) Culturing animal cells in laboratory |

Options :

92090665921. 1
92090665922. 2
92090665923. 3
92090665924. 4

Question Number : 81 Question Id : 92090616683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जैव सूचना विज्ञान का उपयोग नहीं हो सकता (सर्वाधिक उपयुक्त का चयन कीजिए):

- | | |
|----------------------------------|--|
| (1) संरचना अवलोकन में | (2) संरचना पूर्वानुमान में |
| (3) औषधि निर्माण (डिजाइनिंग) में | (4) प्रयोगशाला में जन्तुकोशिका संवर्धन में |

Options :

92090665921. 1
92090665922. 2
92090665923. 3
92090665924. 4

Question Number : 82 Question Id : 92090616684 Question Type : MCQ Option Shuffling : No 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 : Prosthetic groups bind weakly and transiently to their enzymes, forming dissociable complexes

Statement II : Cofactors bind tightly and stably incorporate into proteins structure.

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 :

92090665925. 1

92090665926. 2

92090665927. 3

92090665928. 4

Question Number : 82 Question Id : 92090616684 Question Type : MCQ Option Shuffling : No 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 : प्रोस्थेटिक समूह अपने एंजाइमों से कमजोर और अस्थायी आबंध बनाते हैं, जो टूटने वाले सम्मिश्र बनाते हैं।

कथन II : सह-कारक, प्रोटीन की संरचना में सुदृढ़ और स्थिरता से आबंधन करके शामिल होते हैं।

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

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

Options :

- 92090665925. 1
- 92090665926. 2
- 92090665927. 3
- 92090665928. 4

Question Number : 83 Question Id : 92090616685 Question Type : MCQ Option Shuffling : No 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 correct sequence of the process of transcription is:

- (A) Sigma release
- (B) Initiation
- (C) Termination
- (D) Elongation

Choose the most appropriate answer from the options given below :

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

Options :

- 92090665929. 1
- 92090665930. 2
- 92090665931. 3
- 92090665932. 4

Question Number : 83 Question Id : 92090616685 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अनुलेखन की प्रक्रिया के चरणों का सही अनुक्रम है:

- (A) सिग्मा निर्मुक्त होना (सिग्मा रिलीज)
- (B) प्रारम्भन (इनीशिएसन)
- (C) समापन (टर्मिनेशन)
- (D) प्रसार (इलॉगेशन)

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

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

Options :

- 92090665929. 1
- 92090665930. 2
- 92090665931. 3
- 92090665932. 4

Question Number : 84 Question Id : 92090616686 Question Type : MCQ Option Shuffling : No 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
<u>Bacteria</u>	<u>Disease</u>
(A) <i>Treponema pallidum</i>	(I) Plague
(B) <i>Clostridium botulinum</i>	(II) Food poisoning
(C) <i>Pasturella pestis</i>	(III) Syphilis
(D) <i>Mycobacterium tuberculosis</i>	(IV) Tuberculosis

Choose the correct answer from the options given below:

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

Options :

- 92090665933. 1
- 92090665934. 2

92090665935. 3

92090665936. 4

Question Number : 84 Question Id : 92090616686 Question Type : MCQ Option Shuffling : No 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
जीवाणु	रोग
(A) ट्रेपोनीमा पैलीडम	(I) प्लेग
(B) क्लोस्ट्रीडियम बोट्रुलिनम	(II) खाद्य-विषाक्तता
(C) पास्ट्युरेला पेस्टिस	(III) सिफिलिस
(D) माइक्रोबैक्टीरियम ट्यूबरकुलोसिस	(IV) ट्यूबरकुलोसिस

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

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

Options :

92090665933. 1

92090665934. 2

92090665935. 3

92090665936. 4

Question Number : 85 Question Id : 92090616687 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Various steps in sequential order (start to end) for homology modeling of protein:

- (A) Sequence alignment and refinement of sequence alignment.
- (B) Adding loops and side chains
- (C) Model optimization and model evaluation
- (D) Building model framework
- (E) Identification of template by database searching

Choose the correct answer from the options given below :

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

Options :

- 92090665937. 1
- 92090665938. 2
- 92090665939. 3
- 92090665940. 4

Question Number : 85 Question Id : 92090616687 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रोटीन के समजातीय प्रारूपण के विभिन्न चरणों (प्रारम्भ से अन्त) का सही अनुक्रम होगा:

- (A) अनुक्रम संरेखण और अनुक्रम संरेखण का संशोधन।
- (B) छल्ले (लूप्स) और बगल की श्रृंखलाएं (साईड चेन्स) जोड़ना।
- (C) आदर्श इष्टतमीकरण (ऑप्टिमाइजेशन) और आदर्शन मूल्यांकन।
- (D) आदर्श रूपरेखा तैयार करना।
- (E) डेटाबेस खोज के द्वारा टेम्पलेट की पहचान करना।

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

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

Options :

- 92090665937. 1
- 92090665938. 2
- 92090665939. 3
- 92090665940. 4

Question Number : 86 Question Id : 92090616688 Question Type : MCQ Option Shuffling : No 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 : Nuclear Magnetic Resonance spectroscopy is used for determination of 3D structure of protein.

Statement II : X-Ray crystallography is used for determination of 3D structure of protein.

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

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

Options :

- 92090665941. 1
- 92090665942. 2
- 92090665943. 3
- 92090665944. 4

Question Number : 86 Question Id : 92090616688 Question Type : MCQ Option Shuffling : No 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 : नाभिकीय चुम्बकीय अनुनाद स्पेक्ट्रोस्कोपी का प्रयोग प्रोटीन की 3-D संरचना की जाँच के लिए किया जाता है।

कथन II : X-रे क्रिस्टलोग्राफी का प्रयोग प्रोटीन की 3-D संरचना की जाँच के लिए किया जाता है।

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

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

Options :

92090665941. 1

92090665942. 2

92090665943. 3

92090665944. 4

Question Number : 87 Question Id : 92090616689 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Correct statements given are:

- (A) The 2 amino acids in a peptide chain are joined by hydrogen bond
- (B) The 2 amino acids in a peptide chain are joined by peptide bond
- (C) The bond between 2 amino acids in a peptide chain is covalent bond
- (D) The 2 amino acids in a peptide chain are joined through condensation reaction
- (E) The pentapeptide structure contains 5 amino acids joined by 4 bonds

Choose the most appropriate answer from the options given below :

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

Options :

92090665945. 1

92090665946. 2

92090665947. 3

92090665948. 4

Question Number : 87 Question Id : 92090616689 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिए गए कथनों में सही कथन हैं:

- (A) पेप्टाइड श्रृंखला में दो अमीनो अम्ल, हाइड्रोजन आबन्ध द्वारा जुड़ते हैं।
- (B) पेप्टाइड श्रृंखला में दो अमीनो अम्ल, पेप्टाइड आबन्ध द्वारा जुड़ते हैं।
- (C) पेप्टाइड श्रृंखला में दो अमीनो अम्लों के बीच आबन्ध सहसंयोजी आबंध होते हैं।
- (D) पेप्टाइड श्रृंखला में दो अमीनो अम्ल संघनन अभिक्रिया द्वारा जुड़ते हैं।
- (E) पेन्टापेप्टाइड संरचनाओं में 5 अमीनो अम्ल 4 आबंधों द्वारा जुड़े होते हैं।

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

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

Options :

92090665945. 1

92090665946. 2

92090665947. 3

92090665948. 4

Question Number : 88 Question Id : 92090616690 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Some friends buy a six-pack of popcorn. Two of the bags are salted (s), the rest are fruit flavoured (f). They decide to allocate the bags by lottery dip. Chosen the probability that the first two bags, chosen are identical is:

- | | |
|--------------------|--------------------|
| (1) $\frac{8}{15}$ | (2) $\frac{7}{15}$ |
| (3) $\frac{5}{15}$ | (4) $\frac{6}{15}$ |

Options :

- 92090665949. 1
- 92090665950. 2
- 92090665951. 3
- 92090665952. 4

Question Number : 88 Question Id : 92090616690 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कुछ मित्र पॉपकॉर्न का छह पैक वाला बाक्स खरीदते हैं। इसमें दो बैग नमकीन (S) और शेष फलों के स्वाद (F) वाले हैं। वे बैगों को लाटरी डिप द्वारा आबंटन का निर्णय लेते हैं। पहले चयन किए दोनों बैग एक जैसे हों, इसकी प्रायिकता क्या होगी ?

- | | |
|--------------------|--------------------|
| (1) $\frac{8}{15}$ | (2) $\frac{7}{15}$ |
| (3) $\frac{5}{15}$ | (4) $\frac{6}{15}$ |

Options :

- 92090665949. 1
- 92090665950. 2
- 92090665951. 3
- 92090665952. 4

Question Number : 89 Question Id : 92090616691 Question Type : MCQ Option Shuffling : No 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 known as soluble RNA?

- | | |
|----------|-----------|
| (1) tRNA | (2) mRNA |
| (3) rRNA | (4) ncRNA |

Options :

- 92090665953. 1
- 92090665954. 2
- 92090665955. 3
- 92090665956. 4

Question Number : 89 Question Id : 92090616691 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिए गए RNA में से कौन घुलनशील RNA है?

- | | |
|----------|-----------|
| (1) tRNA | (2) mRNA |
| (3) rRNA | (4) hcRNA |

Options :

92090665953. 1
92090665954. 2
92090665955. 3
92090665956. 4

Question Number : 90 Question Id : 92090616692 Question Type : MCQ Option Shuffling : No 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 two alleles for a heritable character segregate during gamete formation and end up in different gamete. This statement has been given in the Mendel's model of:

- | | |
|-----------------------------------|------------------------|
| (1) Law of Independent assortment | (2) Law of Segregation |
| (3) Mutation | (4) Variation |

Options :

92090665957. 1
92090665958. 2
92090665959. 3
92090665960. 4

Question Number : 90 Question Id : 92090616692 Question Type : MCQ Option Shuffling : No 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 वंशानुगत लक्षण के लिए दो अलील युग्मक निर्माण के दौरान एक दूसरे से अलग हो जाते हैं और भिन्न युग्मक बनाते हैं। यह कथन मेंडल के किस नियम में दिया गया है?

- | | |
|-------------------------------|----------------------|
| (1) स्वतंत्र अपव्यूहन का नियम | (2) पृथक्करण का नियम |
| (3) उत्परिवर्तन | (4) विभिन्नता |

Options :

92090665957. 1
92090665958. 2
92090665959. 3
92090665960. 4

Question Number : 91 Question Id : 92090616693 Question Type : MCQ Option Shuffling : No 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 used to enable strict mode in perl?

- | | |
|----------------------|------------------|
| (1) use strict; | (2) strict mode; |
| (3) use strict mode; | (4) use mode; |

Options :

- 92090665961. 1
- 92090665962. 2
- 92090665963. 3
- 92090665964. 4

Question Number : 91 Question Id : 92090616693 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

पर्ल (Perl) में सख्तमोड (Strict mode) को सक्षम करने में किया जाता है, वह है :

- | | |
|------------------------|--------------------|
| (1) यूज स्ट्रिक्ट; | (2) स्ट्रिक्ट मोड; |
| (3) यूज स्ट्रिक्ट मोड; | (4) यूज मोड; |

Options :

- 92090665961. 1
- 92090665962. 2
- 92090665963. 3
- 92090665964. 4

Question Number : 92 Question Id : 92090616694 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

One of the basic sequence comparison method in Bioinformatics is:

- | | |
|-----------------------|-----------------------|
| (1) Molecular Docking | (2) Homology modeling |
| (3) DOT PLOT | (4) Chromatograms |

Options :

- 92090665965. 1
- 92090665966. 2
- 92090665967. 3
- 92090665968. 4

Question Number : 92 Question Id : 92090616694 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जैव सूचना विज्ञान (बायोइन्फोर्मेटिक्स) में एक मूल अनुक्रम तुलना विधि (बेसिक सीक्वेंस कंपैरीजन मेथड) है:

- | | |
|-------------------|----------------------|
| (1) आण्विक डॉकिंग | (2) होमोलोगी मॉडलिंग |
| (3) DOT PLOT | (4) क्रोमेटोग्राम्स |

Options :

- 92090665965. 1
- 92090665966. 2
- 92090665967. 3
- 92090665968. 4

Question Number : 93 Question Id : 92090616695 Question Type : MCQ Option Shuffling : No 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) : Body temperature of a human body may fluctuate between 35°C to 40°C .

Reasons (R) : The above temperature range in Farenhei scale will be 95°F to 104°F .

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 :

- 92090665969. 1
- 92090665970. 2
- 92090665971. 3
- 92090665972. 4

Question Number : 93 Question Id : 92090616695 Question Type : MCQ Option Shuffling : No 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 (Reasons (R)) के रूप में :

अभिकथन (A) : एक मानव के शरीर के तापमान में 35°C से 40°C के बीच उतार-चढ़ाव हो सकते हैं।

कारण (R) : उपरोक्त तापमान फारेनहाइट पैमाने पर 95°F से 104°F के बीच होगा।

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 :

92090665969. 1

92090665970. 2

92090665971. 3

92090665972. 4

Question Number : 94 Question Id : 92090616696 Question Type : MCQ Option Shuffling : No 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 does not obey Chargaff's rule?

- (1) ds DNA and RNA
- (2) ss DNA and RNA
- (3) ds DNA
- (4) ds DNA, ss DNA and RNA

Options :

92090665973. 1

92090665974. 2

92090665975. 3

92090665976. 4

Question Number : 94 Question Id : 92090616696 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

इनमें से कौन चारगाफ के नियम का पालन नहीं करता ?

- | | |
|-------------------|---------------------------|
| (1) ds DNA और RNA | (2) ss DNA और RNA |
| (3) ds DNA | (4) ds DNA, ss DNA और RNA |

Options :

92090665973. 1
92090665974. 2
92090665975. 3
92090665976. 4

Question Number : 95 Question Id : 92090616697 Question Type : MCQ Option Shuffling : No 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 file extension for the perl program is :

- | | |
|-----------|----------|
| (1) .perl | (2) .prl |
| (3) .plr | (4) .pl |

Options :

92090665977. 1
92090665978. 2
92090665979. 3
92090665980. 4

Question Number : 95 Question Id : 92090616697 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

पर्ल प्रोग्राम के लिए फाइल एक्टेन्शन है:

- | | |
|-----------|----------|
| (1) .perl | (2) .prl |
| (3) .plr | (4) .pl |

Options :

92090665977. 1
92090665978. 2
92090665979. 3
92090665980. 4

Question Number : 96 Question Id : 92090616698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Glutamine is storehouse of:

- | | |
|---------------------|--------------------------|
| (1) NO_3^- | (2) H_2O |
| (3) NH_3 | (4) N_2O |

Options :

92090665981. 1
92090665982. 2
92090665983. 3
92090665984. 4

Question Number : 96 Question Id : 92090616698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ग्लूटेमिन भंडारगृह (स्टोर हाऊस) है:

- | | |
|------------------------|-----------------------------|
| (1) NO_3^- का | (2) H_2O का |
| (3) NH_3 का | (4) N_2O का |

Options :

92090665981. 1
92090665982. 2
92090665983. 3
92090665984. 4

Question Number : 97 Question Id : 92090616699 Question Type : MCQ Option Shuffling : No 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 smallest monosaccharide, composed of 3 carbon atoms is:

- | | |
|----------------------|----------------|
| (1) D-Glyceraldehyde | (2) D-Altrose |
| (3) D-Glucose | (4) D-Fructose |

Options :

92090665985. 1
92090665986. 2
92090665987. 3
92090665988. 4

Question Number : 97 Question Id : 92090616699 Question Type : MCQ Option Shuffling : No 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 कार्बन परमाणुओं से बना सबसे छोटा मोनोसेकेराइड है:

- | | |
|-----------------------|----------------|
| (1) D-ग्लिसरोल्डिहाइड | (2) D-एल्ट्रोज |
| (3) D-ग्लाइकोज | (4) D-फ्रक्टोज |

Options :

92090665985. 1
92090665986. 2
92090665987. 3
92090665988. 4

Question Number : 98 Question Id : 92090616700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

According to Watson and Crick Model of DNA, the diameter of DNA helix is about:

- | | |
|----------|----------|
| (1) 15 Å | (2) 10 Å |
| (3) 35 Å | (4) 20 Å |

Options :

92090665989. 1
92090665990. 2
92090665991. 3
92090665992. 4

Question Number : 98 Question Id : 92090616700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

वाटसन और क्रिक के डी एन ए प्रारूप के अनुसार, DNA रज्जुक का व्यास लगभग _____ होता है।

- | | |
|----------|----------|
| (1) 15 Å | (2) 10 Å |
| (3) 35 Å | (4) 20 Å |

Options :

92090665989. 1
92090665990. 2

92090665991. 3

92090665992. 4

Question Number : 99 Question Id : 92090616701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The term 'Captcha' means (in computers):

- (1) that confirms, user is human and not on automated program
- (2) Captures the images from the hard copy
- (3) Controls the flow of Data in computers
- (4) Controls the cache

Options :

92090665993. 1

92090665994. 2

92090665995. 3

92090665996. 4

Question Number : 99 Question Id : 92090616701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कंप्यूटर में पद 'Captcha' (कैप्चा) का अर्थ है:

- (1) यह सुनिश्चित करना कि, उपयोगकर्ता एक मानव है और स्वचालित प्रोग्राम नहीं है।
- (2) हाई कॉपी से आकृतियों को ग्रहण (प्राप्त) करता है।
- (3) कंप्यूटर में डेटा के प्रवाह को नियंत्रित करता है।
- (4) कैश (Cache) को नियंत्रित करता है।

Options :

92090665993. 1

92090665994. 2

92090665995. 3

92090665996. 4

Question Number : 100 Question Id : 92090616702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

“Alt+Tab” shortcut key is used for:

- (1) close the open application in windows
- (2) Switch between open applications in windows
- (3) Open new page in MS Word
- (4) Start the internet explorer

Options :

92090665997. 1
92090665998. 2
92090665999. 3
92090666000. 4

Question Number : 100 Question Id : 92090616702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

‘Alt + Tab’ शार्टकट बटन का प्रयोग होता है:

- (1) विन्डोज में खुली हुई एप्लीकेशन को बन्द करना
- (2) विन्डोज में खुले हुए अनुप्रयोगों (एप्लीकेशन्स) के बीच बदलना
- (3) MS word (वर्ड) में नया पेज खोलना
- (4) इंटरनेट एक्सप्लोरर को प्रारम्भ करना

Options :

92090665997. 1
92090665998. 2
92090665999. 3
92090666000. 4