National Testing Agency

Question Paper Name :	Zoology Eng 26th June 2023 Shift 1
Subject Name :	Zoology Eng
Creation Date :	2023-06-26 18:20:56
Duration :	120
Total Marks :	400
Display Marks:	Yes

Zoology

Group Number :	1
Group Id :	920906256
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 :	920906511
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 :	920906828
Question Shuffling Allowed :	No
Is Section Default? :	null

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Question Id : 92090625812 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

Amid consistent rise in deaths of pedestrians and cyclists, Punjab has taken the lead among the states and UTs to implement the 'right to walk' by making it mandatory for all road owning agencies, including the NHAI, to provide foot path and cycle tracks in all future expansion of roads and construction of new ones, reports **Dipak Dash.**

The state government has issued these directions following two court orders after PILs were filed at Punjab and Haryana HC and another in the Supreme Court.

As per a communication from Punjab chief secretary Vijay Kumar Janjua to Punjab government's traffic adviser, Navdeep Asija, "in future all expansions of existing roads and construction of new roads, a mandatory provision of cycle tracks and footpaths should be made by all road owning departments and agencies".

The letter sent last week added that all agencies such as the public works department, local bodies, NHAI and urban development departments have been instructed to prepare an action plan to construct footpaths and cycle tracks with a time frame and budget provision.

TIMES VIEW: The right to walk is a cool idea. Pedestrian walkways and cycle tracks must be built everywhere. However, we must also audit the existing tracks and examine their lacunae. For instance, such tracks are regularly invaded by motorbikes. That apart, pedestrian-only tracks often have huge gaps, which makes walking a dangerous exercise. In other words, the right to walk must be converted into a proper mission with every angle taken care of to make it a success.

Sub questions

Question Number : 1 Question Id : 92090625813 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

Given below are two statements :

Statement I : Amid consistent a decline in deaths of pedestrians and cyclists, Punjab has taken the lead among the states and UTs to implement the 'right to walk'.

Statement II : The state government has issued these directions following two court orders aften PILs were filed.

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 true but Statement II is incorrect

(4) Statement I is false but Statement II is correct

Options :

920906102001. 1
920906102002. 2
920906102003. 3
920906102004. 4

Question Number : 2 Question Id : 92090625814 Question Type : MCQ Option Shuffling : No 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 lacunae associated with existing tracks, cycle tracks is:

(1) motor bikes often use to go in them.

(2) Right to walk is exclusive in such cycle tracks.

(3) Cycle tracks are clean and properly lighted.

(4) A much accomplished mission.

Options :

920906102005. 1
920906102006. 2
920906102007. 3
920906102008. 4

Question Number : 3 Question Id : 92090625815 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

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Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which department was not instructed to prepare action plan for foot path construction.

(1) NHAI
(2) PWD
(3) UDD
(4) Rural development department (RDD)

Options :
920906102009. 1
920906102010. 2
920906102011. 3
920906102012. 4

Question Number : 4 Question Id : 92090625816 Question Type : MCQ Option Shuffling : No 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 synonym of 'lacunae' is:

(1) Characteristic
(2) Cavity
(3) Prominent portium
(4) Speciality

Options :
920906102013. 1
920906102014. 2
920906102015. 3
920906102016. 4

Question Number : 5 Question Id : 92090625817 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Full form of PIL is:

(1) Private Insight Litigation
(2) private Interest Litigation
(3) Public Independent Litigation
(4) Public Interest Litigation

Options :
920906102017. 1
920906102018. 2
920906102019. 3
920906102020. 4

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Question Id : 92090625812 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

Amid consistent rise in deaths of pedestrians and cyclists, Punjab has taken the lead among the states and UTs to implement the 'right to walk' by making it mandatory for all road owning agencies, including the NHAI, to provide foot path and cycle tracks in all future expansion of roads and construction of new ones, reports **Dipak Dash.**

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Sub questions

Question Number : 1 Question Id : 92090625813 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Options :

920906102001. 1
920906102002. 2
920906102003. 3
920906102004. 4

Question Number : 2 Question Id : 92090625814 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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920906102005. 1
920906102006. 2
920906102007. 3
920906102008. 4

Question Number : 3 Question Id : 92090625815 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

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Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which department was not instructed to prepare action plan for foot path construction.

(1) NHAI
(2) PWD
(3) UDD
(4) Rural development department (RDD)

Options :
920906102009. 1
920906102010. 2
920906102011. 3
920906102012. 4

Question Number : 4 Question Id : 92090625816 Question Type : MCQ Option Shuffling : No 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 synonym of 'lacunae' is:

(1) Characteristic
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920906102014. 2
920906102015. 3
920906102016. 4

Question Number : 5 Question Id : 92090625817 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Full form of PIL is:

(1) Private Insight Litigation
(2) private Interest Litigation
(3) Public Independent Litigation
(4) Public Interest Litigation

Options :
920906102017. 1
920906102018. 2
920906102019. 3
920906102020. 4

Sub-Section Number : 2

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Sub-Section Id :	920906829
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 6 Question Id : 92090625818 Question Type : MCQ Option Shuffling : No 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) This in the best film that I am even seen.

(2) This in best film that I have ever seen.

(3) This in the best film that I have never seen.

(4) This in the best film that I even seeing.

Options :

920906102021. 1

920906102022. 2

920906102023. 3

920906102024. 4

Question Number : 6 Question Id : 92090625818 Question Type : MCQ Option Shuffling : No 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) This in the best film that I am even seen.

(2) This in best film that I have ever seen.

(3) This in the best film that I have never seen.

(4) This in the best film that I even seeing.

Options :

920906102021. 1

920906102022. 2

920906102023. 3

920906102024. 4

Question Number : 7 Question Id : 92090625819 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Identify the correct indirect narration for the following sentence:

The poor examinee said, "O God take pity on me."

(1) The poor examinee prayed God to take pity on him.

(2) The poor examinee, invoking God, implored him to take pity on him.

(3) The poor examinee exclaimed that God take pity on him.

(4) The poor examinee asked God to take pity on him.

Options :

920906102025. 1

920906102026. 2

920906102027. 3

920906102028. 4

Question Number : 7 Question Id : 92090625819 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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(3) The poor examinee exclaimed that God take pity on him.

(4) The poor examinee asked God to take pity on him.

Options :

920906102025. 1

920906102026. 2

920906102027. 3

920906102028. 4

Question Number : 8 Question Id : 92090625820 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Choose the correct passive voice form of the following sentence:

Why was she looking at the scenery?

(1) Why was the scenery looking at by her?

(2) Why was the scenery being looked at by her?

(3) Why did she look at the scenery?

(4) Why was the scenery being looked by her?

Options :

920906102029. 1

920906102030. 2

920906102031. 3

920906102032. 4

Question Number : 8 Question Id : 92090625820 Question Type : MCQ Option Shuffling : No 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 passive voice form of the following sentence:

Why was she looking at the scenery?

(1) Why was the scenery looking at by her?

(2) Why was the scenery being looked at by her?

(3) Why did she look at the scenery?

(4) Why was the scenery being looked by her?

Options :

920906102029. 1

920906102030. 2

920906102031. 3

920906102032. 4

Question Number : 9 Question Id : 92090625821 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Choose the option which is opposite in meaning to the following word:

barbaric

(1) primitive
(2) civilized
(3) modern
(4) uncivilized

Options :
920906102033. 1
920906102034. 2
920906102035. 3
920906102036. 4

Question Number : 9 Question Id : 92090625821 Question Type : MCQ Option Shuffling : No 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 option which is opposite in meaning to the following word:

barbaric

(1) primitive
(2) civilized
(3) modern
(4) uncivilized

Options :
920906102033. 1
920906102034. 2
920906102035. 3
920906102036. 4

Question Number : 10 Question Id : 92090625822 Question Type : MCQ Option Shuffling : No 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 out the part of speech of the underlined word in the following sentence.

Natural thrist is more graciously gratified by water.

(1) verb
(2) adjective
(3) noun
(4) adverb

Options :
920906102037. 1
920906102038. 2
920906102039. 3

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920906102040. 4

Question Number : 10 Question Id : 92090625822 Question Type : MCQ Option Shuffling : No 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 out the part of speech of the underlined word in the following sentence.

Natural thrist is more graciously gratified by water.

(1) verb (2) adjective

(3) noun (4) adverb

Options :

920906102037. 1

920906102038. 2

920906102039. 3

920906102040. 4

Question Number : 11 Question Id : 92090625823 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Number of chromosome present in Human?

(1) 40 pairs (2) 24 pairs

(3) 23 pairs (4) 32 pairs

Options :

920906102041. 1

920906102042. 2

920906102043. 3

920906102044. 4

Question Number : 11 Question Id : 92090625823 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Number of chromosome present in Human?

(1) 40 pairs (2) 24 pairs

(3) 23 pairs (4) 32 pairs

Options :

920906102041. 1

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920906102042. 2
920906102043. 3
920906102044. 4

Question Number : 12 Question Id : 92090625824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

As of 2020, how many languages in India are given the states of classical languages in constitution of India?

(1) six (2) eight

(3) seven (4) five

Options :

920906102045. 1
920906102046. 2
920906102047. 3
920906102048. 4

Question Number : 12 Question Id : 92090625824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

As of 2020, how many languages in India are given the states of classical languages in constitution of India?

(1) six (2) eight

(3) seven (4) five

Options :

920906102045. 1
920906102046. 2
920906102047. 3
920906102048. 4

Question Number : 13 Question Id : 92090625825 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List I with List II :

List I	List II
Dadasaheb phalke Award Year	Lifetime achievement, Name of the awardee
(A) 2017	(I) Rajnikanth
(B) 2018	(II) Asha Parekh
(C) 2019	(III) Vinod Khanna
(D) 2022	(IV) Amitabh Bachchan

Choose the correct answer from the options given below:

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

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

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

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

Options :

920906102049. 1

920906102050. 2

920906102051. 3

920906102052. 4

Question Number : 13 Question Id : 92090625825 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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(B) 2018	(II) Asha Parekh
(C) 2019	(III) Vinod Khanna
(D) 2022	(IV) Amitabh Bachchan

Choose the correct answer from the options given below:

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

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

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

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

Options :

920906102049. 1

920906102050. 2

920906102051. 3

920906102052. 4

Question Number : 14 Question Id : 92090625826 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

Statement I : According to the Global Innovation Index, 2021 India has ranked 46th in the Global Innovation Index, 2021.

Statement II : According to the Global Innovation Index, 2021 the Republic of Korea Joins the top 5 of the GII for the first time in 2021.

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

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 :

920906102053. 1

920906102054. 2

920906102055. 3

920906102056. 4

Question Number : 14 Question Id : 92090625826 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

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(4) Statement I is incorrect but Statement II is correct

Options :

920906102053. 1
920906102054. 2
920906102055. 3
920906102056. 4

Question Number : 15 Question Id : 92090625827 Question Type : MCQ Option Shuffling : No 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 first PIO women to set record of 1397 km (at –50 °C) solo, unsupported track to South Pole?

(1) Harpreet Chandi

(2) Arunima Sinha

(3) Bachendri Pal

(4) Junko Tabei

Options :

920906102057. 1
920906102058. 2
920906102059. 3
920906102060. 4

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Question Number : 15 Question Id : 92090625827 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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(1) Harpreet Chandi

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(3) Bachendri Pal

(4) Junko Tabei

Options :

920906102057. 1

920906102058. 2

920906102059. 3

920906102060. 4

Question Number : 16 Question Id : 92090625828 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

After interchanging the first and last digits in each of the following numbers, identify the correct sequence of numbers in the ascending order.

A. 216

B. 793

C. 682

D. 497

E. 385

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

(1) B, C, A, E, D

(2) B, C, E, A, D

(3) C, B, E, A, D

(4) C, A, E, B, D

Options :

920906102061. 1

920906102062. 2

920906102063. 3

920906102064. 4

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Question Number : 16 Question Id : 92090625828 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

After interchanging the first and last digits in each of the following numbers, identify the correct sequence of numbers in the ascending order.

A. 216

B. 793

C. 682

D. 497

E. 385

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

(1) B, C, A, E, D

(2) B, C, E, A, D

(3) C, B, E, A, D

(4) C, A, E, B, D

Options :

920906102061. 1

920906102062. 2

920906102063. 3

920906102064. 4

Question Number : 17 Question Id : 92090625829 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Rama said to mohan "Last Monday I defined the sister of the only son of any grandfather". Whom did rama defect?

(1) Mother

(2) Aunty

(3) Daughter

(4) Sister

Options :

920906102065. 1

920906102066. 2

920906102067. 3

920906102068. 4

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Question Number : 17 Question Id : 92090625829 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Rama said to mohan "Last Monday I defined the sister of the only son of any grandfather". Whom did rama defect?

(1) Mother (2) Aunty

(3) Daughter (4) Sister

Options :

920906102065. 1

920906102066. 2

920906102067. 3

920906102068. 4

Question Number : 18 Question Id : 92090625830 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Preeti, Kirti, Rinki and Swati get one flower each from among Rose, Marigold, Dahlia or Tulip whose plants are placed in a sequence in the garden. Rinki gets the Dahlia flower. Marogold plant is adjacent to the Tulip plant. Preeti does not get the flower from the plant adjacent to the plant whose flower was given to Rinki. Dahlia plant is the only plant in between the Marigold and Rose plants. Which flower does preeti get?

(1) Rose (2) Marigold

(3) Dahlia (4) Tulip

Options :

920906102069. 1

920906102070. 2

920906102071. 3

920906102072. 4

Question Number : 18 Question Id : 92090625830 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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(1) Rose
(2) Marigold
(3) Dahlia
(4) Tulip

Options :
920906102069. 1
920906102070. 2
920906102071. 3
920906102072. 4

Question Number : 19 Question Id : 92090625831 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Look at the series: 11, 18, 13, 20, 15, ... Which one of the following numbers should come next in the series?

(1) 21
(2) 22
(3) 23
(4) 24

Options :
920906102073. 1
920906102074. 2
920906102075. 3
920906102076. 4

Question Number : 19 Question Id : 92090625831 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Look at the series: 11, 18, 13, 20, 15, ... Which one of the following numbers should come next in the series?

(1) 21
(2) 22
(3) 23
(4) 24

Options :
920906102073. 1

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920906102074. 2
920906102075. 3
920906102076. 4

Question Number : 20 Question Id : 92090625832 Question Type : MCQ Option Shuffling : No 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 :

In a certain code 'BRIGHT' is written as 'ATHIGV' then in the same code

Statement I : 'NORTH' will be written as 'MPSVG' and

Statement II : 'WATER' will be written as 'VCSGS'

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 :
920906102077. 1
920906102078. 2
920906102079. 3
920906102080. 4

Question Number : 20 Question Id : 92090625832 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

In a certain code 'BRIGHT' is written as 'ATHIGV' then in the same code

Statement I : 'NORTH' will be written as 'MPSVG' and

Statement II : 'WATER' will be written as 'VCSGS'

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 :

920906102077. 1
920906102078. 2
920906102079. 3
920906102080. 4

Question Number : 21 Question Id : 92090625833 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Mohan invest a certain sum at the rate of Simple Interest 5% per annum. Find the number of years for which Mohan has to invest the the sum to double his sum:

(1) 25 years

(2) 20 years

(3) 18 years

(4) 15 years

Options :

920906102081. 1
920906102082. 2
920906102083. 3
920906102084. 4

Question Number : 21 Question Id : 92090625833 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Mohan invest a certain sum at the rate of Simple Interest 5% per annum. Find the number of years for which Mohan has to invest the the sum to double his sum:

(1) 25 years (2) 20 years

(3) 18 years (4) 15 years

Options :

920906102081. 1

920906102082. 2

920906102083. 3

920906102084. 4

Question Number : 22 Question Id : 92090625834 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Sonu and Monu start together from point A to reach to B, with speeds, 5 km/h and 3 km/h respectively. If Sonu reaches B one hour before Monu, then the distance between A and B is:

(1) 5 km (2) 6 km

(3) 6.5 km (4) 7.5 km

Options :

920906102085. 1

920906102086. 2

920906102087. 3

920906102088. 4

Question Number : 22 Question Id : 92090625834 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Sonu and Monu start together from point A to reach to B, with speeds, 5 km/h and 3 km/h respectively. If Sonu reaches B one hour before Monu, then the distance between A and B is:

(1) 5 km (2) 6 km

(3) 6.5 km (4) 7.5 km

Options :

920906102085. 1

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920906102086. 2
920906102087. 3
920906102088. 4

Question Number : 23 Question Id : 92090625835 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Renu speaks truth in 70% of the cases and Bina in 75% of the cases. The percentage of ceses they are likely to contradict each other in stating the same fact is:

(1) 15% (2) 40%

(3) 7.5% (4) 20%

Options :

920906102089. 1
920906102090. 2
920906102091. 3
920906102092. 4

Question Number : 23 Question Id : 92090625835 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Renu speaks truth in 70% of the cases and Bina in 75% of the cases. The percentage of ceses they are likely to contradict each other in stating the same fact is:

(1) 15% (2) 40%

(3) 7.5% (4) 20%

Options :

920906102089. 1
920906102090. 2
920906102091. 3
920906102092. 4

Question Number : 24 Question Id : 92090625836 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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If a = 130, b = 133 and c = 137, There the value of $a^3 + b^3 + c^3 - 3$ abc is

(1) 14200 (2) 14400

(3) 14800 (4) 13800

Options :

920906102093. 1

920906102094. 2

920906102095. 3

920906102096. 4

Question Number : 24 Question Id : 92090625836 Question Type : MCQ Option Shuffling : No 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 a = 130, b = 133 and c = 137, There the value of $a^3 + b^3 + c^3 - 3$ abc is

(1) 14200 (2) 14400

(3) 14800 (4) 13800

Options :

920906102093. 1

920906102094. 2

920906102095. 3

920906102096. 4

Question Number : 25 Question Id : 92090625837 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Which of the following discount option in most beneficial for shop keeper?

(A) Successive discount of 20%, 30% and then pay 10% Service Tax.

(B) Successive discount of 30%, 10% and then pay 10% Service Tax.

(C) Pay Service Tax of 10% first, then successive discount of 20%, 30%.

(D) Pay Service Tax of 10% first, then successive discount of 30%, 20%.

Choose the most appropriate answer from the options given below:

(1) D only

(2) A, B only

(3) B, C, D only

(4) A, C, D only

Options :

920906102097. 1

920906102098. 2

920906102099. 3

920906102100. 4

Question Number : 25 Question Id : 92090625837 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following discount option in most beneficial for shop keeper?

(A) Successive discount of 20%, 30% and then pay 10% Service Tax.

(B) Successive discount of 30%, 10% and then pay 10% Service Tax.

(C) Pay Service Tax of 10% first, then successive discount of 20%, 30%.

(D) Pay Service Tax of 10% first, then successive discount of 30%, 20%.

Choose the most appropriate answer from the options given below:

(1) D only

(2) A, B only

(3) B, C, D only

(4) A, C, D only

Options :

920906102097. 1

920906102098. 2

920906102099. 3

920906102100. 4

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Part B: Zoology

Section Id :	920906512
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	71
Number of Questions to be attempted :	71
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 :	920906830
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 26 Question Id : 92090625838 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Aristotle's lantern is a masticating apparatus of

1. sea urchins
2. lizards
3. toads
4. octopus

Options :

920906102101. 1

920906102102. 2

920906102103. 3

920906102104. 4

Question Number : 26 Question Id : 92090625838 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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एरिस्टोटल लैन्टर्न निम्नलिखित में से किसका चवर्णी उपांग है?

1. जल साही (समुद्री–अर्चिन)
2. छिपकली
3. टोड
4. ऑक्टोपस

Options :

920906102101. 1
920906102102. 2
920906102103. 3
920906102104. 4

Question Number : 27 Question Id : 92090625839 Question Type : MCQ Option Shuffling : No 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 lac operon, the lac repressor prevents the transcription initiation by binding to

1. lac inducer
2. lac terminator
3. open reading frame
4. lac operator

Options :

920906102105. 1
920906102106. 2
920906102107. 3
920906102108. 4

Question Number : 27 Question Id : 92090625839 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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लैक प्रचालेक (ऑपेरोन) में, लैक दमनकारी (रिप्रेसर) अनुलेखन के आरंभ को निम्नलिखित में से किसके साथ बंधन करके रोकता है?

1. लैक प्रेरक (इन्ड्यूसर)
2. लैक समापक (टर्मिनेटर)
3. मुक्त पठन फ्रेम (ORF)
4. लैक प्रचालक (ऑपरेटर)

Options :

920906102105. 1
920906102106. 2
920906102107. 3
920906102108. 4

Question Number : 28 Question Id : 92090625840 Question Type : MCQ Option Shuffling : No 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 (Genetic Disorders)		List–II (Genetic Alteration)
(A)	Down syndrome	(I)	Gain of X-chromosome
(B)	Klinefelter's syndrome	(II)	Loss of X-chromosome
(C)	Turner's syndrome	(III)	Trisomy of chromosome 21
(D)	Cri du chat syndrome	(IV)	Deletion of small terminal portion of chromosome 5

Choose the correct answer from the options given below :

1. (A)–(III); (B)–(II); (C)–(I); (D)–(IV)
2. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
3. (A)–(I); (B)–(IV); (C)–(II); (D)–(III)
4. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)

Options :

920906102109. 1

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920906102110. 2
920906102111. 3
920906102112. 4

Question Number : 28 Question Id : 92090625840 Question Type : MCQ Option Shuffling : No 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 (आनुवंशिक विकार)		सूची–II (आनुवंशिक परिवर्तन)
(A)	'डाउन सिन्ड्रोम'	(I)	X-गुणसूत्र का लाभ
(B)	'क्लाइनफेल्टर सिन्ड्रोम'	(II)	X-गुणसूत्र की हानि
(C)	'टर्नर सिन्ड्रोम'	(III)	गुणसूत्र-21 की त्रिसूत्रता (ट्राइसोमी ऑफ क्रोमोजोम-21)
(D)	'क्रिडु चैट सिन्ड्रोम'	(IV)	गुणसूत्र-5 के लघु प्रादेशिक भाग का विलोपन

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

1. (A)–(III); (B)–(II); (C)–(I); (D)–(IV)
2. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
3. (A)–(I); (B)–(IV); (C)–(II); (D)–(III)
4. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)

Options :

920906102109. 1
920906102110. 2
920906102111. 3
920906102112. 4

Question Number : 29 Question Id : 92090625841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Phenylketonuria is a type of

1. X-linked dominant disease
2. X-linked recessive disease
3. autosomal dominant disease
4. autosomal recessive disease

Options :
920906102113. 1
920906102114. 2
920906102115. 3
920906102116. 4

Question Number : 29 Question Id : 92090625841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

फीनाइलकीटोन्यूरिया एक प्रकार का

1. X-संलग्न प्रभावी रोग है
2. X -संलग्न अप्रभावी रोग है
3. अलिंग क्रोमोसोम प्रभावी रोग है
4. अलिंग क्रोमोसोम अप्रभावी रोग है

Options :
920906102113. 1
920906102114. 2
920906102115. 3
920906102116. 4

Question Number : 30 Question Id : 92090625842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Hypersensitivity involved in blood transfusion and erythroblastosis fetalis is

1. Type I hypersensitivity
2. Type II hypersensitivity
3. Type III hypersensitivity
4. Type IV hypersensitivity

Options :
920906102117. 1
920906102118. 2
920906102119. 3
920906102120. 4

Question Number : 30 Question Id : 92090625842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

रक्त आधान और गर्भ रक्ताणुकोरकता के दौरान होने वाली अतिसंवेदनशीलता निम्नलिखित में से कौन से प्रकार की अतिसंवेदनशीलता है?

1. टाइप I अतिसंवेदनशीलता
2. टाइप II अतिसंवेदनशीलता
3. टाइप III अतिसंवेदनशीलता
4. टाइप IV अतिसंवेदनशीलता

Options :
920906102117. 1
920906102118. 2
920906102119. 3
920906102120. 4

Question Number : 31 Question Id : 92090625843 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

Statement I : On morphological grounds, scientists speculated that mitochondria and chloroplasts might be intracellular parasites that has established symbiotic relationship with the eukaryotic cells.

Statement II : Blue-green algae thought to have originated the mitochondria, and bacteria have originated the chloroplasts.

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 :

920906102121. 1

920906102122. 2

920906102123. 3

920906102124. 4

Question Number : 31 Question Id : 92090625843 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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नीचे दो कथन दिए गए हैं :

कथन I : वैज्ञानिकों ने यह अनुमान लगाया कि आकृति के आधार पर माइटोकॉन्ड्रिया तथा हरित-लवक अंतः कोशिकीय परजीवी हो सकते हैं जिन्होंने ससीमकेन्द्रकीय (यूकेरियोटिक) कोशिकाओं के साथ सहजीवी संबंध स्थापित कर लिया है।

कथन II : ऐसा माना जाता है कि नील-हरित शैवाल द्वारा माइटोकॉन्ड्रिया का प्रादुर्भाव हुआ तथा जीवाणुओं द्वारा हरितलवकों का प्रादुर्भाव हुआ।

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

1. कथन I और II दोनों सही हैं
2. कथन I और II दोनों गलत हैं
3. कथन I सही है, लेकिन कथन II गलत है
4. कथन I गलत है, लेकिन कथन II सही है

Options :

920906102121. 1
920906102122. 2
920906102123. 3
920906102124. 4

Question Number : 32 Question Id : 92090625844 Question Type : MCQ Option Shuffling : No 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 method used to analyse larger DNA fragments (> 1 Mbp) is

1. polyacrylamide gel electrophoresis
2. Isoelectric focusing
3. agarose gel electrophoresis
4. pulsed-field gel electrophoresis

Options :

920906102125. 1
920906102126. 2
920906102127. 3
920906102128. 4

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Question Number : 32 Question Id : 92090625844 Question Type : MCQ Option Shuffling : No 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-सी प्रणाली के द्वारा डी एन ए के बड़े खंडों (>1 Mbp) का विश्लेषण किया जाता है?

1. पॉलीएक्रिलेमाइड जेल इलेक्ट्रोफोरेसिस
2. आइसोइलेक्ट्रिक फोकसिंग
3. ऐगारोज जेल इलेक्ट्रोफोरेसिस
4. पल्स-फील्ड जेल इलेक्ट्रोफोरेसिस

Options :

920906102125. 1

920906102126. 2

920906102127. 3

920906102128. 4

Question Number : 33 Question Id : 92090625845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Evolution of drug-resistant bacteria is an example of

1. genetic drift
2. natural selection
3. bottleneck effect
4. founder effect

Options :

920906102129. 1

920906102130. 2

920906102131. 3

920906102132. 4

Question Number : 33 Question Id : 92090625845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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औषध-प्रतिरोधी जीवाणुओं का विकास निम्नलिखित में से किसका उदाहरण है?

1. आनुवंशिक अप्रवाह
2. प्राकृतिक वरण
3. अवरोधन प्रभाव
4. संस्थापक प्रवाह

Options :

920906102129. 1
920906102130. 2
920906102131. 3
920906102132. 4

Question Number : 34 Question Id : 92090625846 Question Type : MCQ Option Shuffling : No 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 mimicry in which a palatable species mimics a toxic species is called

1. character displacement mimicry
2. Batesian mimicry
3. Mullerian mimicry
4. Gregorian mimicry

Options :

920906102133. 1
920906102134. 2
920906102135. 3
920906102136. 4

Question Number : 34 Question Id : 92090625846 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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अनुहरण जिसमें खाद्य स्पीशीज एक अखाद्य स्पीशीज की अनुहारक होती है, कहलाता है

1. लक्षण विस्थापन अनुहरण
2. बेटेसियन अनुहरण
3. म्यूलेरियन अनुहरण
4. ग्रिगेरियन अनुहरण

Options :
920906102133. 1
920906102134. 2
920906102135. 3
920906102136. 4

Question Number : 35 Question Id : 92090625847 Question Type : MCQ Option Shuffling : No 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 interaction where one species is harmed and the other is unaffected is called

1. commensalism
2. facilitation
3. parasitism
4. amensalism

Options :
920906102137. 1
920906102138. 2
920906102139. 3
920906102140. 4

Question Number : 35 Question Id : 92090625847 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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ऐसी पारस्परिक क्रिया, जिसमें एक जाति को हानि होती है और दूसरी को न लाभ न हानि, वह कहलाती है:

1. सहभोजिता
2. सुसाध्यता
3. परजीविता
4. अंतरजातीय परजीविता

Options :

920906102137. 1
920906102138. 2
920906102139. 3
920906102140. 4

Question Number : 36 Question Id : 92090625848 Question Type : MCQ Option Shuffling : No 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 : Speciation can occur rapidly or slowly.

Statement II : Speciation can take place with geographic separation only.

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 :

920906102141. 1
920906102142. 2
920906102143. 3
920906102144. 4

Question Number : 36 Question Id : 92090625848 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं :

कथन I : जाति उद्भवन तीव्रता से अथवा शनैः शनैः हो सकता है।

कथन II : जाति उद्भवन केवल भौगोलिक पृथक्करण के साथ ही हो सकता है।

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

1. कथन I और II दोनों सही हैं
2. कथन I और II दोनों गलत हैं
3. कथन I सही है, लेकिन कथन II गलत है
4. कथन I गलत है, लेकिन कथन II सही है

Options :

920906102141. 1
920906102142. 2
920906102143. 3
920906102144. 4

Question Number : 37 Question Id : 92090625849 Question Type : MCQ Option Shuffling : No 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 eukaryotes, 5S rRNA is synthesized by

1. RNA polymerase I
2. RNA polymerase II
3. RNA polymerase III
4. RNA polymerase σ (sigma) subunit

Options :

920906102145. 1
920906102146. 2
920906102147. 3
920906102148. 4

Question Number : 37 Question Id : 92090625849 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

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Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

ससीमकेन्द्रकियों में 5S rRNA का संश्लेषण किसके द्वारा किया जाता है?

1. आर एन ए पॉलिमरेस I
2. आर एन ए पॉलिमरेस II
3. आर एन ए पॉलिमरेस III
4. आर एन ए पॉलिमरेस σ (सिग्मा) उप-एकक

Options :
920906102145. 1
920906102146. 2
920906102147. 3
920906102148. 4

Question Number : 38 Question Id : 92090625850 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Ramachandran plots are used to analyse

1. primary structure of proteins
2. secondary structure of proteins
3. tertiary structure of proteins
4. quaternary structure of proteins

Options :
920906102149. 1
920906102150. 2
920906102151. 3
920906102152. 4

Question Number : 38 Question Id : 92090625850 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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रामचन्द्रन प्लॉट का उपयोग किसके विश्लेषण के लिए किया जाता है?

1. प्रोटीन की प्राथमिक संरचना के लिए
2. प्रोटीन की द्वितीयक संरचना के लिए
3. प्रोटीन की तृतीयक संरचना के लिए
4. प्रोटीन की चतुष्क संरचना के लिए

Options :

920906102149. 1
920906102150. 2
920906102151. 3
920906102152. 4

Question Number : 39 Question Id : 92090625851 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Active transport is required for

1. positively charged molecules
2. neutral molecules
3. negatively charged molecules
4. chloride ions

Options :

920906102153. 1
920906102154. 2
920906102155. 3
920906102156. 4

Question Number : 39 Question Id : 92090625851 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सक्रिय परिवहन (ट्रांस्पोर्ट) निम्नलिखित में से किसके लिए आवश्यक है?

1. धनात्मक आवेश वाले अणुओं के लिए
2. उदासीन अणुओं के लिए
3. ऋणात्मक आवेश वाले अणुओं के लिए
4. क्लोराइड आयनों के लिए

Options :
920906102153. 1
920906102154. 2
920906102155. 3
920906102156. 4

Question Number : 40 Question Id : 92090625852 Question Type : MCQ Option Shuffling : No 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 theme of G-20 Summit currently held in India?

1. One Earth – One Goal
2. One Earth – One Family – One Future
3. Sustainable Living – Simple Thinking
4. Poverty eradication and 100% literacy

Options :
920906102157. 1
920906102158. 2
920906102159. 3
920906102160. 4

Question Number : 40 Question Id : 92090625852 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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जी-20 सम्मेलन जो हाल ही में भारत में होने जा रहा है, उसकी थीम है—

1. एक पृथ्वी – एक लक्ष्य
2. एक पृथ्वी – एक परिवार – एक भविष्य
3. संधारणीय जीवन – साधारण सोच
4. गरीबी उन्मूलन और 100% शिक्षित

Options :

920906102157. 1
920906102158. 2
920906102159. 3
920906102160. 4

Question Number : 41 Question Id : 92090625853 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which one of the following is not present in the smooth muscles?

1. Z-disc
2. H-band
3. Thick myofilaments
4. Thin myofilaments

Options :

920906102161. 1
920906102162. 2
920906102163. 3
920906102164. 4

Question Number : 41 Question Id : 92090625853 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से कौन-सा चिकनी पेशियों में नहीं होता?

1. Z-डिस्क
2. H-बैंड
3. मोटे पेशीतंतु
4. पतले पेशीतंतु

Options :

920906102161. 1
920906102162. 2
920906102163. 3
920906102164. 4

Question Number : 42 Question Id : 92090625854 Question Type : MCQ Option Shuffling : No 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 pH of cytoplasm and lysosomes are ~ 7 and ~5 respectively. How many fold H^+ ion concentration is higher in lysosomes compared to cytoplasm?

1. 2
2. 50
3. 20
4. 100

Options :

920906102165. 1
920906102166. 2
920906102167. 3
920906102168. 4

Question Number : 42 Question Id : 92090625854 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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कोशिका द्रव्य और लाइसोसोम का pH क्रमशः ~7 और ~5 है। ज्ञात कीजिए कि लाइसोसोम में कोशिका द्रव्य के मुकाबले कितने गुना अधिक H^+ आयन सांद्रता हैं।

1. 2
2. 50
3. 20
4. 100

Options :

920906102165. 1
920906102166. 2
920906102167. 3
920906102168. 4

Question Number : 43 Question Id : 92090625855 Question Type : MCQ Option Shuffling : No 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 amount of air that moves into the lungs with each normal inspiration is known as

1. inspiratory reserve volume
2. expiratory reserve volume
3. vital capacity
4. tidal volume

Options :

920906102169. 1
920906102170. 2
920906102171. 3
920906102172. 4

Question Number : 43 Question Id : 92090625855 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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एक साधारण अंतः श्वसन में हवा की मात्रा जो फेफड़ों में अन्दर आती है उसे क्या कहते हैं?

1. अंतः श्वसन सुरक्षित आयतन (इन्सपाइरेटोरी रिज़र्व वॉल्यूम)
2. निःश्वसन सुरक्षित आयतन (एक्सपाइरेटोरी रिर्ज़व वॉल्यूम)
3. जैव क्षमता (वाइटल केपेस्टी)
4. ज्वारीय आयतन (टाइडल वॉल्यूम)

Options :
920906102169. 1
920906102170. 2
920906102171. 3
920906102172. 4

Question Number : 44 Question Id : 92090625856 Question Type : MCQ Option Shuffling : No 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 resting membrane potential of neuronal cell is maintained by

1. higher intracellular K^+ ion conc. and lower extracellular Na^+ ion conc.
2. higher extracellular K^+ ion conc. and lower intracellular Na^+ ion conc.
3. higher intracellular K^+ ion conc. and higher extracellular Na^+ ion conc.
4. lower intracellular K^+ ion conc. and higher extracellular Na^+ ion conc.

Options :
920906102173. 1
920906102174. 2
920906102175. 3
920906102176. 4

Question Number : 44 Question Id : 92090625856 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से किसके द्वारा तंत्रिका कोशिका की झिल्ली में विराम विभव का संधारण होता है?

1. अधिक अन्तः कोशिकी K^+ आयन सान्द्रता और बाह्य कोशिका में कम Na^+ आयन सान्द्रता।
2. कोशिका बाह्य में अधिक K^+ आयन सान्द्रता और अन्तः कोशिका में कम Na^+ आयन सान्द्रता ।
3. अन्तः कोशिका में अधिक K^+ आयन सान्द्रता और बाह्य कोशिका में अधिक Na^+ आयन सान्द्रता।
4. कम अन्तः कोशिकी K^+ आयन सान्द्रता और बाह्य कोशिका में अधिक Na^+ आयन सान्द्रता।

Options :

920906102173. 1
920906102174. 2
920906102175. 3
920906102176. 4

Question Number : 45 Question Id : 92090625857 Question Type : MCQ Option Shuffling : No 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 hormone primarily accelerates the reabsorption of Na^+ along the distal convoluted tubule and proximal portion of collecting duct?

1. ADH
2. Renin
3. Aldosterone
4. Oxytocin

Options :

920906102177. 1
920906102178. 2
920906102179. 3
920906102180. 4

Question Number : 45 Question Id : 92090625857 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से मुख्यतः कौन-सा हॉर्मोन दूरस्थ संवलित नलिका और संग्राहक वाहिनी के समीपस्थ अनुभाग द्वारा Na^+ का पुनर्अवशोषण त्वरित करता है?

1. ए. डी. एच.
2. रेनिन
3. एल्डोस्टीरॉन
4. ऑक्सीटोसिन

Options :
920906102177. 1
920906102178. 2
920906102179. 3
920906102180. 4

Question Number : 46 Question Id : 92090625858 Question Type : MCQ Option Shuffling : No 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 statistical method is best suitable for testing the goodness of fit between an observed and expected distribution?

1. Analysis of variance (ANOVA)
2. Chi-square test
3. *F*-Test
4. Kruskal-Wallis test

Options :
920906102181. 1
920906102182. 2
920906102183. 3
920906102184. 4

Question Number : 46 Question Id : 92090625858 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से कौन-सी सांख्यिकीय विधि प्रेक्षण और प्रत्याशित वितरण के बीच में समंजन सुष्ठुता की जाँच के लिए बिल्कुल उपयुक्त है?

1. प्रसरण का विश्लेषण (ANOVA)
2. काई वर्ग परीक्षण
3. *F* परीक्षण
4. क्रुशकल-वालिस परीक्षण

Options :

920906102181. 1
920906102182. 2
920906102183. 3
920906102184. 4

Question Number : 47 Question Id : 92090625859 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Nieuwkoop centre is formed by the accumulation of

1. β-catenin
2. Smad 2/4
3. Activin
4. TGF- β

Options :

920906102185. 1
920906102186. 2
920906102187. 3
920906102188. 4

Question Number : 47 Question Id : 92090625859 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से किसके एकत्रित होने से नियूकूप केन्द्र बनता है?

1. β - कैटेनिन
2. स्मैड 2/4
3. ऐक्टिविन
4. TGF-β

Options :

920906102185. 1
920906102186. 2
920906102187. 3
920906102188. 4

Question Number : 48 Question Id : 92090625860 Question Type : MCQ Option Shuffling : No 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 primitive streak is derived from

1. anterior epiblast cells
2. hypoblast cells
3. Hensen's node
4. blastocoel

Options :

920906102189. 1
920906102190. 2
920906102191. 3
920906102192. 4

Question Number : 48 Question Id : 92090625860 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से किससे आद्य वर्णरेखा व्युत्पन्न होती है?

1. अग्र एपिब्लास्ट कोशिकाएँ
2. अधःकोरक कोशिकाँए
3. हेन्सन गाँठ
4. कोरकगुहा

Options :
920906102189. 1
920906102190. 2
920906102191. 3
920906102192. 4

Question Number : 49 Question Id : 92090625861 Question Type : MCQ Option Shuffling : No 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 anapsid skull is a characteristic of

1. lizards
2. crocodiles
3. alligators
4. turtles

Options :
920906102193. 1
920906102194. 2
920906102195. 3
920906102196. 4

Question Number : 49 Question Id : 92090625861 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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अछिद्र करोटि निम्नलिखित में से किसका विशिष्ट लक्षण है?

1. छिपकली
2. मगरमच्छ
3. घड़ियाल
4. कूर्म (टर्टल्स)

Options :

920906102193. 1
920906102194. 2
920906102195. 3
920906102196. 4

Question Number : 50 Question Id : 92090625862 Question Type : MCQ Option Shuffling : No 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 fish that spends its adult life in seawater but migrates to the freshwater for spawning is

1. catadromous
2. anadromous
3. Limnodromus
4. oceanodromous

Options :

920906102197. 1
920906102198. 2
920906102199. 3
920906102200. 4

Question Number : 50 Question Id : 92090625862 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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एक मछली जो अपना वयस्क जीवन समुद्री पानी में बिताती है परंतु अंडजनन के लिए अलवण जल में प्रवास करती है वह कहलाती हैः

1. समुद्रभिगामी (कैटाड्रोमस)
2. समुद्रापगामी (एन्ड्रोमस)
3. नदगामी (लिम्नोड्रोमस)
4. समुद्रगामी (ऑसियनोड्रोमस)

Options :
920906102197. 1
920906102198. 2
920906102199. 3
920906102200. 4

Question Number : 51 Question Id : 92090625863 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Free swimming ciliated larva of human liver fluke is

1. miracidium
2. sporocyst
3. cercaria
4. metacercaria

Options :
920906102201. 1
920906102202. 2
920906102203. 3
920906102204. 4

Question Number : 51 Question Id : 92090625863 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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मानव यकृत कृमि के मुक्तप्लावी पक्ष्माभी लारवा को कहते हैं

1. मिरासीडियम
2. बीजाणुपुटी
3. सर्केरिया
4. मेटासर्केरिया

Options :

920906102201. 1
920906102202. 2
920906102203. 3
920906102204. 4

Question Number : 52 Question Id : 92090625864 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Arrange the events of virus replication in a host cell :

A. Attachment
B. Packing of viral genome with structural proteins
C. Release of genomic material in the host cytoplasm
D. Synthesis of viral genes and proteins

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

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

Options :

920906102205. 1
920906102206. 2
920906102207. 3
920906102208. 4

Question Number : 52 Question Id : 92090625864 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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वायरस के पोषी कोशिका में प्रतिकृतियन की घटनाओं को क्रमानुसार लिखिए :

A. संलग्न

B. वायरस जीनोम और संरचनात्मक प्रोटीनों का संकुलन

C. पोषी कोशिका द्रव्य में जीनोमिक सामग्री का मोचन

D. वायरस जीन और प्रोटीन का संश्लेषण

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

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

Options :

920906102205. 1
920906102206. 2
920906102207. 3
920906102208. 4

Question Number : 53 Question Id : 92090625865 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Arrange the following enzymes involved in β-oxidation pathway of fatty acids in sequence :

A. Aetyl-CoA-acetyltransferase

B. Enoyl CoA hydratase

C. Acyl-CoA synthetase

D. Acyl-CoA dehydrogenase

E. β-hydroxyacyl CoA dehydrogenase

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

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

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Options :
920906102209. 1
920906102210. 2
920906102211. 3
920906102212. 4

Question Number : 53 Question Id : 92090625865 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

वसा अम्लों के β -आक्सीकरण के पथ में सम्मिलित एन्ज़ाइमों को क्रमानुसार लिखिए :

A. ऐसाइल- कोए ऐसीटाइलट्रांसफरेस
B. इनोय्ल कोए हाइड्रोलेस
C. ऐसाइल - कोए सिन्थेटेस
D. ऐसाइल- कोए डीहाइड्रोजिनेस
E. β -हाइड्राक्सीएसाइल कोए डीहाइड्रोजिनेस

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

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

Options :
920906102209. 1
920906102210. 2
920906102211. 3
920906102212. 4

Question Number : 54 Question Id : 92090625866 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Arrange the following steps involved in phagocytosis of bacterium by a macrophage :

A. Phagosome fuses with lysosome

B. Bacterium is ingested, forming a phagosome

C. Bacterium is killed and then digested by lysosomal enzymes

D. Bacterium becomes attached to membrane evaginations called pseudopodia

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

1. A, C, D, B

2. D, B, A, C

3. D, C, A, B

4. B, C, A, D

Options :

920906102213. 1
920906102214. 2
920906102215. 3
920906102216. 4

Question Number : 54 Question Id : 92090625866 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

बृहत् भक्षकाणु द्वारा जीवाणु के भक्षकाणु-क्रिया के चरणों को क्रमानुसार लिखिए :

A. फैगोसोम का लाइसोसोम के साथ संगलन

B. जीवाणु अंतःग्रहण द्वारा फैगोसोम का बनना

C. जीवाणु की मृत्यु होना और लाइसोसोम के एन्ज़ाइमों द्वारा पाचन होना

D. जीवाणु का झिल्ली के बहिर्वलन, जिन्हें पादाभ कहते हैं, के साथ संलग्न होना

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

1. A, C, D, B

2. D, B, A, C

3. D, C, A, B

4. B, C, A, D

Options :

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920906102213. 1
920906102214. 2
920906102215. 3
920906102216. 4

Question Number : 55 Question Id : 92090625867 Question Type : MCQ Option Shuffling : No 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 metamorphosis in urochordates is :

A. A non-feeding free swimming larva

B. The outer epidermis, during metamorphosis shrinks and the notochord along with tail structure regresses

C. The larva settles to a firm substrate by attaching with adhesive papilla

D. Reorganisation of internal structure by 180° rotation

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

1. C, A, B, D

2. A, C, B, D

3. A, B, C, D

4. D, A, B, C

Options :
920906102217. 1
920906102218. 2
920906102219. 3
920906102220. 4

Question Number : 55 Question Id : 92090625867 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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यूरोकॉर्डेटों में कायांतरण के चरणों को क्रमबद्ध कीजिए :

A. मुक्तप्लावी विसंभरण लारवा

B. कायांतरण के दौरान बाह्य त्वचा का सिकुड़ना और नोटोकॉर्ड का पूँछ संरचना के साथ पश्चगमन होना

C. लारवा का चिपचिपे पैपिला द्वारा संलग्न करके दृढ़ अधःस्तर पर स्थापन

D. 180° के घूर्णन से आंतरिक संरचना का पुनर्संगठन

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

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

Options :

920906102217. 1
920906102218. 2
920906102219. 3
920906102220. 4

Question Number : 56 Question Id : 92090625868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

During oogenesis, the following events occur in sequence :

A. Primary oocyte undergoes meiotic division

B. Secondary oocyte remains arrested until fertilization

C. Oogonia undergo mitotic divisions

D. Primordial germ cells undergo mitosis

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

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

Options :

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920906102221. 1
920906102222. 2
920906102223. 3
920906102224. 4

Question Number : 56 Question Id : 92090625868 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

अंडजनन के दौरान होने वाली घटनाओं को क्रमबद्ध कीजिए :

A. प्राथमिक अंडक में अर्धसूत्री विभाजन होना

B. निषेचन तक द्वितीय अंडक अवस्था में अवरूद्ध रहना

C. अंडजननी कोशिकाओं का सूत्रीविभाजन

D. आदि जनन कोशिका का सूत्रीविभाजन

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

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

Options :

920906102221. 1
920906102222. 2
920906102223. 3
920906102224. 4

Question Number : 57 Question Id : 92090625869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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The sequence of events leading to evolution of life is :

A. Protocell formation

B. Formation of polymers from the monomers

C. Origin of single-celled organisms

D. Self-replicating RNA

E. Abiotic synthesis of organic monomers i.e., amino acids and nitrogen base

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

1. E, D, A, B, C

2. E, A, D, B, C

3. E, B, A, D, C

4. E, B, D, A, C

Options :

920906102225. 1

920906102226. 2

920906102227. 3

920906102228. 4

Question Number : 57 Question Id : 92090625869 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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जैविक विकास में होने वाली घटनाओं को क्रमबद्ध कीजिए :

A. आदि कोशिका का निर्माण

B. एकलकों से बहुलकों का निर्माण

C. एक-कोशिकीय जीवों की उत्पत्ति

D. स्व-प्रतिकृतीयन आर एन ए

E. कार्बनिक एकलकों का अजैविक संश्लेषण अर्थात अमीनों अम्ल और नाइट्रोजन क्षारकों का निर्माण

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

1. E, D, A, B, C

2. E, A, D, B, C

3. E, B, A, D, C

4. E, B, D, A, C

Options :

920906102225. 1
920906102226. 2
920906102227. 3
920906102228. 4

Question Number : 58 Question Id : 92090625870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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The sequential events of fertilization in sea urchin include :

A. Contact and recognition of gamete counterparts

B. Sperm entry in polysaccharide and glycoprotein envelop around egg

C. Fusion of genetic material of two gametes

D. Activation of egg metabolism to initiate mitotic division

E. Block to the entry of additional sperm

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

1. A, B, E, C, D

2. A, B, C, E, D

3. B, A, D, C, E

4. A, E, B, C, D

Options :

920906102229. 1

920906102230. 2

920906102231. 3

920906102232. 4

Question Number : 58 Question Id : 92090625870 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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जल साही (समुद्री अर्चिन) के निषेचन में होनेवाली घटनाओं को क्रमबद्ध कीजिए :

A. युग्मक प्रतिरूपों का संपर्क और पहचान

B. शुक्राणु का अंडाणु के चारों ओर पॉलीसैकराइड और ग्लाइकोप्रोटीन के आवरण में प्रवेश

C. दोनों युग्मकों के आनुवंशिक द्रव्य का संलयन

D. सूत्रीविभाजन के आरंभ के लिए अंडाणु के उपापचय का सक्रियण

E. अतिरिक्त शुक्राणुओं के प्रवेश के लिए अवरोध

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

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

Options :

920906102229. 1
920906102230. 2
920906102231. 3
920906102232. 4

Question Number : 59 Question Id : 92090625871 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

Statement I : Parental care increases the chances of offspring survival but requires large energy expenditure.

Statement II : In amphibians, females of the genus *Pipa* carry eggs on their head in cephalic hooks.

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 :

920906102233. 1
920906102234. 2
920906102235. 3
920906102236. 4

Question Number : 59 Question Id : 92090625871 Question Type : MCQ Option Shuffling : No 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 : पैतृक संरक्षण संतान के जीवन का संयोग तो बढ़ाता है परन्तु इसके लिए प्रचुर मात्रा में ऊर्जा का व्यय होता है।

कथन II : उभयचरों में जीनस *पीपा* की मादा अंडाणुओं को अपने शिर पर शिरस्य अंकुशों में रखती हैं।

उपरोक्त कथनों 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 :

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920906102233. 1
920906102234. 2
920906102235. 3
920906102236. 4

Question Number : 60 Question Id : 92090625872 Question Type : MCQ Option Shuffling : No 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 : Paedogenesis is the retention of larval characters in the adults.

Statement II : Neoteny refers to the accelerated gonadal maturation in the larvae.

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 :
920906102237. 1
920906102238. 2
920906102239. 3
920906102240. 4

Question Number : 60 Question Id : 92090625872 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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नीचे दो कथन दिए गए हैं :

कथन I : शावकीजनन लारवा के लक्षणों का वयस्क में धारण होने का उल्लेख करता है।

कथन II : चिरभ्रूणता लारवा में जनन-ग्रंथियों में त्वरित परिपक्वता का उल्लेख करती है।

उपरोक्त कथनों 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 :

920906102237. 1
920906102238. 2
920906102239. 3
920906102240. 4

Question Number : 61 Question Id : 92090625873 Question Type : MCQ Option Shuffling : No 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 : Javan Rhino is a vulnerable species.

Statement II : One-horned Rhino is a vulnerable species.

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 :

920906102241. 1
920906102242. 2
920906102243. 3
920906102244. 4

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Question Number : 61 Question Id : 92090625873 Question Type : MCQ Option Shuffling : No 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 : जावन राइनो एक असुरक्षित जाति है।

कथन II : एकल-शृंग राइनो एक असुरक्षित जाति है।

उपरोक्त कथनों 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 :

920906102241. 1

920906102242. 2

920906102243. 3

920906102244. 4

Question Number : 62 Question Id : 92090625874 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

Statement I : Integumentary systems like skin, hair provide sensory information and regulate body temperature.

Statement II : Integumentary systems store energy reserves.

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 :

920906102245. 1

920906102246. 2

920906102247. 3

920906102248. 4

Question Number : 62 Question Id : 92090625874 Question Type : MCQ Option Shuffling : No 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 : अध्यावरणी तंत्र जैसे त्वचा, बाल, संवेदी सूचना संभरण करते हैं और शरीर के तापमान को भी नियमित करते हैं।

कथन II : अध्यावरणी तंत्र ऊर्जा के निचय का भंडारण करता है।

उपरोक्त कथनों 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 :

920906102245. 1

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920906102246. 2
920906102247. 3
920906102248. 4

Question Number : 63 Question Id : 92090625875 Question Type : MCQ Option Shuffling : No 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 : Myofibrils are not attached to the plasma membrane.

Statement II : Myofibrils are attached to the plasma membrane at both ends of a muscle fibre.

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 :

920906102249. 1
920906102250. 2
920906102251. 3
920906102252. 4

Question Number : 63 Question Id : 92090625875 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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नीचे दो कथन दिए गए हैं :

कथन I : पेशीतंतुक प्लाज्मा झिल्ली से संलग्न नहीं होते।

कथन II : पेशीतंतुक प्लाज्मा झिल्ली से पेशी फाइबर के दोनों छोरों से संलग्न होते हैं।

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 :

920906102249. 1
920906102250. 2
920906102251. 3
920906102252. 4

Question Number : 64 Question Id : 92090625876 Question Type : MCQ Option Shuffling : No 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 : Genetic code is degenerate.

Statement II : Genetic code resists single-base substitution mutations.

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 :

920906102253. 1
920906102254. 2
920906102255. 3

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920906102256. 4

Question Number : 64 Question Id : 92090625876 Question Type : MCQ Option Shuffling : No 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 : आनुवंशिक कूट उपह्रासित है।

कथन II : आनुवंशिक कूट एकल-क्षारक प्रतिस्थापन उत्परिवर्तन का प्रतिरोध करता है।

उपरोक्त कथनों 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 :

920906102253. 1

920906102254. 2

920906102255. 3

920906102256. 4

Question Number : 65 Question Id : 92090625877 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Given below are two statements :

Statement I : Loss of immune function resulting from exposure to external agents such as infection is known as primary immunodeficiency.

Statement II : Immunodeficiency due to developmental or inherited genetic defect in the immune system is called a secondary immunodeficiency.

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 :

920906102257. 1
920906102258. 2
920906102259. 3
920906102260. 4

Question Number : 65 Question Id : 92090625877 Question Type : MCQ Option Shuffling : No 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 : बाहरी कारकों जैसे संक्रमण से होनेवाली प्रतिरक्षा ह्रास को प्राथमिक प्रतिरक्षान्यूनता कहते हैं।

कथन II : प्रतिरक्षा तंत्र में विकासीय अथवा आनुवंशिक आनुवंशिक त्रुटि के कारण होने वाली प्रतिरक्षान्यूनता को द्वितीयक प्रतिरक्षान्यूनता कहते हैं।

उपरोक्त कथनों 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

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Options :

920906102257. 1

920906102258. 2

920906102259. 3

920906102260. 4

Question Number : 66 Question Id : 92090625878 Question Type : MCQ Option Shuffling : No 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 : Recombinant vaccine for hepatitis B is the first synthetic vaccine for public use.

Statement II : Hepatitis B vaccine is a DNA vaccine.

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 :

920906102261. 1

920906102262. 2

920906102263. 3

920906102264. 4

Question Number : 66 Question Id : 92090625878 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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नीचे दो कथन दिए गए हैं :

कथन I : यकृतशोध बी (हीपेटाइटिस बी) के लिए पुनर्योजित वैक्सीन पहली सार्वजनिक उपयोग की संश्लेषित वैक्सीन है।

कथन II : हीपेटाइटिस बी वैक्सीन एक डी एन ए वैक्सीन है।

उपरोक्त कथनों 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 :

920906102261. 1
920906102262. 2
920906102263. 3
920906102264. 4

Question Number : 67 Question Id : 92090625879 Question Type : MCQ Option Shuffling : No 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 statements about MHC molecules are correct?

A. Class I MHC molecules are composed of two non-covalently associated glycoproteins, α and β chains.

B. MHC genes are polymorphic.

C. Class I MHC molecules are expressed on most nucleated cells.

D. Class II MHC molecules are restricted to B-cells, macrophage and dendritic cells.

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

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

Options :

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920906102265. 1
920906102266. 2
920906102267. 3
920906102268. 4

Question Number : 67 Question Id : 92090625879 Question Type : MCQ Option Shuffling : No 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 MHC अणुओं से संबंधित सही कथनों को छाँटिये :

A. वर्ग I MHC अणु दो असहसंयोजकतः से संयोजित ग्लाइकोप्रोटीन, α और β श्रृंखला से बने हैं।

B. MHC जीन बहुरूपीय हैं।

C. वर्ग I MHC अणु लगभग सभी केन्द्रिकित कोशिकाओं में अभिव्यक्त होते हैं।

D. वर्ग II MHC अणु B-कोशिकाओं, बृहत्भक्षकाणु और द्रुमिकाकृतिक कोशिकाओं तक सीमित हैं।

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

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

Options :
920906102265. 1
920906102266. 2
920906102267. 3
920906102268. 4

Question Number : 68 Question Id : 92090625880 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Malignant tumor cells have the following properties :

A. Unregulated cell division

B. Inhibition of angiogenesis

C. Resistance to apoptosis

D. Cellular immortality

E. Ability to metastasis

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

1. A, B, C and D only

2. A, B, D and E only

3. A, C, D and E only

4. B, C, D and E only

Options :

920906102269. 1

920906102270. 2

920906102271. 3

920906102272. 4

Question Number : 68 Question Id : 92090625880 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से दुर्दम अर्बुद कोशिकाओं के गुणों को पहचानिए :

A. अनियंत्रित कोशिका विभाजन

B. एन्जियोजेनेसिस का अवरोधन

C. एपोप्टोसिस का प्रतिरोध

D. कोशिकीय अनश्वरता

E. अपररूपांतरण (मेटास्टेसिस) की क्षमता

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

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

Options :

920906102269. 1
920906102270. 2
920906102271. 3
920906102272. 4

Question Number : 69 Question Id : 92090625881 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Echinoderm characteristics include :

A. calcareous endoskeleton in the form of ossicles derived from mesodermal tissue

B. adults have pentaradial symmetry and larvae with bilateral symmetry

C. water vascular system composed of water filled canals used in locomotion, attachment and feeding

D. incomplete digestive system and schizocoelous

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

1. A, B and C only

2. A, B, C and D only

3. A, B and D only

4. B, C and D only

Options :

920906102273. 1

920906102274. 2

920906102275. 3

920906102276. 4

Question Number : 69 Question Id : 92090625881 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से एकाइनोडर्म के लक्षण पहचानिए :

A. कैल्सियमी अंतः कंकाल जो अस्थिका के रूप में मध्यजनस्तर ऊतक से व्युत्पन्न होता है।

B. वयस्कों में पंचारीय सममिति और लारवा में द्विपार्श्विक सममिति का होना।

C. जल संवहनी तंत्र पानी से भरी हुई नलिकाओं का बना होता है जिनका उपयोग चलन, संलग्नता और संभरण में होता है।

D. अपूर्ण पाचन तंत्र और दीर्णगुह्य।

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

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

Options :

920906102273. 1

920906102274. 2

920906102275. 3

920906102276. 4

Question Number : 70 Question Id : 92090625882 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Which of the following statements are related to steroidal hormones?

A. Cholesterol is the precursor of steroidal hormones.

B. Steroidal hormones include oxytocin and prolactin.

C. Steroidal hormones cannot cross the cell membrane without any receptor.

D. StAR protein helps in transport of cholesterol from outer to inner mitochondrial membrane for steroid biosynthesis.

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

1. A and B only

2. A and C only

3. A and D only

4. B and C only

Options :

920906102277. 1

920906102278. 2

920906102279. 3

920906102280. 4

Question Number : 70 Question Id : 92090625882 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

स्टेरॉयड हॉर्मोन से संबंधित कथन छाँटिये :

A. कोलेस्ट्रॉल स्टेरॉयड हॉर्मोनों का अग्रद्रूत है।

B. ऑक्सीटोसिन और प्रोलैक्टिन स्टेरॉयड हॉर्मोन हैं।

C. स्टेरॉयड हॉर्मोन प्लाज्मा झिल्ली को बिना किसी ग्राही के पार नहीं कर सकते।

D. स्टेरॉयड जैव संश्लेषण के लिए StAR प्रोटीन कोलेस्ट्राल को सूत्रकणिका की बाहरी से आन्तरिक झिल्ली में अभिगमन कराती है।

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

1. केवल A और B
2. केवल A और C
3. केवल A और D
4. केवल B और C

Options :

920906102277. 1
920906102278. 2
920906102279. 3
920906102280. 4

Question Number : 71 Question Id : 92090625883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

For DNA replication, which of the following statements are true?

A. Circular chromosome of *E.coli* replicates through multiple origin of replication.

B. In each linear chromosome of eukaryote, DNA replication begins when replication bubbles form at single site along giant DNA molecule.

C. In each linear chromosome of eukaryote, DNA replication begins when replication bubbles form at multiple sites along giant DNA molecule.

D. In circular chromosome of *E.coli*, one origin of replication is present.

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

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

Options :

920906102281. 1

920906102282. 2

920906102283. 3

920906102284. 4

Question Number : 71 Question Id : 92090625883 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

डी एन ए प्रतिकृतीयन से संबंधित सत्य कथन छाँटिये :

A. *ई. कोलाई* के वृत्तीय गुणसूत्र बहु उद्भव प्रतिकृतियन से प्रतिकृति बनाते हैं।

B. ससीमकेन्द्रकी (यूकैरियोट) के प्रत्येक रैखिक गूणसूत्र में डी एन ए का प्रतिकृतियन तब आंरभ होता है जब प्रतिकृतियन बुलबुला एक बड़े डी एन ए अणु में एक स्थान पर बनता है।

C. ससीमकेन्द्रकी (यूकैरियोट) के प्रत्येक रैखिक गुणसूत्र में डी एन ए प्रतिकृतियन आरंभ तब होता है जब प्रतिकृतियन बुलबुले एक बड़े डी एन ए अणु में अनेक स्थानों पर बनते हैं।

D. *ई. कोलाई* के वृत्तीय गुणसूत्र में एक उद्भव प्रतिकृतियन होता है।

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

1. केवल A और C
2. केवल B और D
3. केवल C और D
4. केवल A और B

Options :

920906102281. 1

920906102282. 2

920906102283. 3

920906102284. 4

Question Number : 72 Question Id : 92090625884 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Which of the following statements are correct?

A. In complete dominance of one allele, heterozygous phenotype is same as that of homozygous dominant.

B. In codominance, both phenotypes are expressed in homozygotes.

C. In multiple allele cases, genes have more than two alleles in the population.

D. In pleiotropy, multiple gene affects single phenotypic character.

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

1. A, B, C and D only

2. B, C and D only

3. A and C only

4. A only

Options :

920906102285. 1

920906102286. 2

920906102287. 3

920906102288. 4

Question Number : 72 Question Id : 92090625884 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से सही कथन पहचानिए :

A. एक एलील की पूर्ण प्रभाविता में विषमयुग्मजी फीनोटाइप समयुग्मजी पूर्ण प्रभाविता के समान होता है।

B. सहप्रभाविता में दोनों प्रकार के फीनोटाइप समयुग्मजों में अभिव्यक्त होते हैं।

C. बहुविकल्पता में किसी समष्टि में जीनों की दो से अधिक एलील होती हैं।

D. बहुप्रभाविता में बहुविकल्पी जीन एक फीनोटाइप लक्षण को प्रभावित करता है।

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

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

Options :

920906102285. 1

920906102286. 2

920906102287. 3

920906102288. 4

Question Number : 73 Question Id : 92090625885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Which of the following are desired characteristics of birds?

A. Lacking urinary bladder

B. Females having one ovary

C. A few living birds have teeth

D. Colour vision

E. Endothermic

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

1. A, B, C, D and E only

2. A, B and E only

3. A, B, D and E only

4. A, B, C and E only

Options :

920906102289. 1

920906102290. 2

920906102291. 3

920906102292. 4

Question Number : 73 Question Id : 92090625885 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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निम्नलिखित में से पक्षियों के वांछित लक्षण पहचानिये :

A. मूत्राशय का अभाव

B. मादा में एक अंडाशय

C. कुछ जीवित पक्षियों में दाँत होते हैं

D. वर्ण दृष्टि

E. आन्तरोष्मी

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

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

Options :
920906102289. 1
920906102290. 2
920906102291. 3
920906102292. 4

Question Number : 74 Question Id : 92090625886 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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Which of the following statements are related to nutrition?

A. Parietal cells in the stomach secrete pepsinogen.

B. Exocrine cells in the pancreas secrete digestive enzyme.

C. Liver stores glucose in the form of starch.

D. Lysozyme is present in the saliva which kills microorganisms.

Choose the correct answer from the options given below :

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

Options :

920906102293. 1
920906102294. 2
920906102295. 3
920906102296. 4

Question Number : 74 Question Id : 92090625886 Question Type : MCQ Option Shuffling : No 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 पोषण से संबंधित कथन छांटिये :

A. आमाशय की भित्तीय कोशिकाएँ पेप्सिनोजन का स्रावण करती हैं।

B. अग्न्याशय की बहिः स्रावी कोशिकाएँ पाचन एन्ज़ाइमों का स्रावण करती हैं।

C. यकृत ग्लूकोस को स्टार्च के रूप में भंडारित करता है।

D. लार में लाइसोज़ाइम उपस्थित होता है जो जीवाणुओं को नष्ट करता है।

नीचे दिए गए विकल्पों में से सही कथनों वाले संयोजन विकल्प को चुनिए :

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

Options :

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920906102293. 1
920906102294. 2
920906102295. 3
920906102296. 4

Question Number : 75 Question Id : 92090625887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

Which of the following is recently added to the World UNESCO- Heritage list?

1. Dholavira, Gujarat
2. Rani Ki Vav, Gujarat
3. Hill Fort, Rajasthan
4. Red Fort, New Delhi

Options :
920906102297. 1
920906102298. 2
920906102299. 3
920906102300. 4

Question Number : 75 Question Id : 92090625887 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

निम्न में किसको वर्तमान विश्व यूनेस्को-परम्परागत सूची में शामिल किया गया है?

1. धोलावीरा, गुजरात
2. रानी की वाव, गुजरात
3. हिल फोर्ट, राजस्थान
4. लाल किला, नई दिल्ली

Options :
920906102297. 1
920906102298. 2
920906102299. 3
920906102300. 4

AGRIGYAN.IN

Question Number : 76 Question Id : 92090625888 Question Type : MCQ Option Shuffling : No 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 (Complement protein)		List–II (Complement pathway)
(A)	C1	(I)	Lectin pathway
(B)	C4	(II)	Classical pathway
(C)	Factor B	(III)	Alternative pathway
(D)	MASP-1	(IV)	Classical and lectin pathway

Choose the correct answer from the options given below :

1. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)
2. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
3. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
4. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)

Options :

920906102301. 1

920906102302. 2

920906102303. 3

920906102304. 4

Question Number : 76 Question Id : 92090625888 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

सूची—I के साथ सूची—II का मिलान कीजिए :

	सूची–I पूरक प्रोटीन		सूची–II पूरक पथ
(A)	सी 1 (C1)	(I)	लेक्टिन पथ
(B)	सी 4 (C4)	(II)	चिरप्रतिष्ठित पथ
(C)	कारक बी (फैक्टर B)	(III)	वैकल्पिक पथ
(D)	एम ए एस पी - 1 (MASP-1)	(IV)	चिरप्रतिष्ठित और लेक्टिन पथ

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

1. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)
2. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
3. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
4. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)

Options :
920906102301. 1
920906102302. 2
920906102303. 3
920906102304. 4

Question Number : 77 Question Id : 92090625889 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Proteins)		List–II (Function)
(A)	BCl-2	(I)	Growth factor receptor
(B)	Bax	(II)	Suppressor of apoptosis
(C)	Rb	(III)	Inducer of apoptosis
(D)	EGFR	(IV)	Suppressor of retino-blastoma

Choose the correct answer from the options given below :

1. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
2. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
3. (A)–(I); (B)–(II); (C)–(IV); (D)–(III)
4. (A)–(III); (B)–(I); (C)–(IV); (D)–(II)

Options :

920906102305. 1

920906102306. 2

920906102307. 3

920906102308. 4

Question Number : 77 Question Id : 92090625889 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची—I के साथ सूची—II का मिलान कीजिए :

	सूची–I प्रोटीन		सूची –II कार्य
(A)	BCl-2	(I)	वृद्धि कारक ग्राही
(B)	Bax	(II)	एपोप्टोसिस का निरोधक
(C)	Rb	(III)	एपोस्टोसिस का विप्रेरक
(D)	EGFR	(IV)	रेटीनोब्लास्टोमा का निरोधक

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

1. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
2. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
3. (A)–(I); (B)–(II); (C)–(IV); (D)–(III)
4. (A)–(III); (B)–(I); (C)–(IV); (D)–(II)

Options :

920906102305. 1
920906102306. 2
920906102307. 3
920906102308. 4

Question Number : 78 Question Id : 92090625890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Period)		List–II (Event)
(A)	Carboniferous period	(I)	Origin of reptiles
(B)	Quaternary period	(II)	Origin of genus '*Homo*'
(C)	Permian period	(III)	Origin of present-day insects
(D)	Devonian period	(IV)	Origin of tetrapods

Choose the correct answer from the options given below :

1. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
2. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
3. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)
4. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)

Options :

920906102309. 1
920906102310. 2
920906102311. 3
920906102312. 4

Question Number : 78 Question Id : 92090625890 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची–I के साथ सूची–II का मिलान कीजिए :

	सूची–I (अवधि/पीरियड)		सूची–II (घटना)
(A)	कार्बोनीफेरस काल	(I)	सरीसृप की उत्पत्ति
(B)	क्वार्टरनरी काल	(II)	*'होमो'* जीनस की उत्पत्ति
(C)	परमियन काल	(III)	वर्तमान कीट-पतंगों की उत्पत्ति
(D)	डिवोनियन काल	(IV)	चतुर्पादों की उत्पत्ति

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

1. (A)–(I); (B)–(II); (C)–(III); (D)–(IV)
2. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
3. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)
4. (A)–(I); (B)–(III); (C)–(IV); (D)–(II)

Options :

920906102309. 1

920906102310. 2

920906102311. 3

920906102312. 4

Question Number : 79 Question Id : 92090625891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Enzyme Class)		List–II (Type of reaction catalysis)
(A)	Oxidoreductases	(I)	Cleavage of C–C, C–O, C–N or other bonds by elimination
(B)	Transferases	(II)	Transfer of electrons (hydride ions or H atoms)
(C)	Lyases	(III)	Group transfer reaction
(D)	Ligases	(IV)	Formation of C–C, C–S, C–O and C–N bonds by condensation reaction

Choose the correct answer from the options given below :

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(I); (B)–(III); (C)–(II); (D)–(IV)
3. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)
4. (A)–(II); (B)–(III); (C)–(I); (D)–(IV)

Options :

920906102313. 1
920906102314. 2
920906102315. 3
920906102316. 4

Question Number : 79 Question Id : 92090625891 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची—I के साथ सूची—II का मिलान कीजिए :

	सूची–I (एंजाइम वर्ग)		सूची–II (उत्प्रेरित अभिक्रिया का प्रकार)
(A)	ऑक्सीडोरिडक्टेसिस	(I)	निष्कासन के द्वारा C—C, C–O, C—N या अन्य बंधों का विदलन
(B)	ट्रांसफरेसेस	(II)	इलेक्ट्रॉन का स्थानांतरण (हाइड्राइड आयन अथवा H परमाणु)
(C)	लाएसेस	(III)	समूह स्थानांतरण अभिक्रिया
(D)	लाइगेसेस	(IV)	संघनन अभिक्रिया द्वारा C–C, C–S, C–O तथा C–N बंधों का बनना

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

1. (A)–(III); (B)–(I); (C)–(II); (D)–(IV)
2. (A)–(I); (B)–(III); (C)–(II); (D)–(IV)
3. (A)–(III); (B)–(II); (C)–(IV); (D)–(I)
4. (A)–(II); (B)–(III); (C)–(I); (D)–(IV)

Options :

920906102313. 1

920906102314. 2

920906102315. 3

920906102316. 4

Question Number : 80 Question Id : 92090625892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Adaptation)		List–II (Animal)
(A)	Echolocation	(I)	Canyon tree frog
(B)	Cryptic coloration	(II)	Poison dart frog
(C)	Aposematism	(III)	Skunks
(D)	Chemical defences	(IV)	Bats

Choose the correct answer from the options given below :

1. (A)–(IV); (B)–(II); (C)–(I); (D)–(III)
2. (A)–(I); (B)–(IV); (C)–(III); (D)–(II)
3. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
4. (A)–(IV); (B)–(I); (C)–(II); (D)–(III)

Options :

920906102317. 1
920906102318. 2
920906102319. 3
920906102320. 4

Question Number : 80 Question Id : 92090625892 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची–I के साथ सूची–II का मिलान कीजिए :

	सूची–I (अनुकूलन)		सूची–II (जानवर)
(A)	इकोलेशन	(I)	कैनयॉन ट्री मेंढक
(B)	गोपक रंजन	(II)	पॉयज़न डार्ट मेंढक
(C)	अपसूचक रंजन	(III)	स्कंक
(D)	रासायनिक सुरक्षा	(IV)	चमगादड़

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

1. (A)–(IV); (B)–(II); (C)–(I); (D)–(III)
2. (A)–(I); (B)–(IV); (C)–(III); (D)–(II)
3. (A)–(IV); (B)–(I); (C)–(III); (D)–(II)
4. (A)–(IV); (B)–(I); (C)–(II); (D)–(III)

Options :

920906102317. 1

920906102318. 2

920906102319. 3

920906102320. 4

Question Number : 81 Question Id : 92090625893 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Arrange the volumes in descending order :

A. 1000 mL

B. 2 dL

C. 2000 μL

D. 3 mL

E. 10000 nL

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

1. B, C, A, E, D

2. C, B, D, E, A

3. B, A, D, C, E

4. A, B, D, C, E

Options :

920906102321. 1

920906102322. 2

920906102323. 3

920906102324. 4

Question Number : 81 Question Id : 92090625893 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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दिए गए आयतनों को अवरोही क्रम में व्यवस्थित कीजिए :

A. 1000 मि. ली.

B. 2 डै. ली.

C. 2000 माइक्रो ली.

D. 3 मि. ली.

E. 10000 नै. ली.

नीचे दिए गए विकल्पों में से सबसे उपयुक्त उत्तर का चयन कीजिए :

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

Options :

920906102321. 1
920906102322. 2
920906102323. 3
920906102324. 4

Question Number : 82 Question Id : 92090625894 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Antibiotic)		List–II (Mode of action)
(A)	Tetracycline	(I)	Prevents initiation of amino-acyl tRNA binding
(B)	Fusidic acid	(II)	Prevents ternany complex binding to ribosome
(C)	Macrolides	(III)	Prevents exit of polypeptide from ribosome
(D)	Kasugamycin	(IV)	Prevents EF-G dissociation

Choose the correct answer from the options given below :

1. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
2. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
3. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
4. (A)–(II); (B)–(III); (C)–(I); (D)–(IV)

Options :

920906102325. 1

920906102326. 2

920906102327. 3

920906102328. 4

Question Number : 82 Question Id : 92090625894 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची–I के साथ सूची–II का मिलान कीजिए :

	सूची–I (प्रतिजैविक)		सूची–II (क्रियाविधि)
(A)	टेट्रासाइक्लिन	(I)	प्रारंभिक अमीनो एसाइल अंतरण आर. एन. ए. के बंधन का अवरोधन
(B)	फ्यूज़िडिक अम्ल	(II)	तृतीयक जटिल संघ के राइबोसोम के साथ बंधन का अवरोधन
(C)	मैक्रोलाइड्स	(III)	राइबोसोम से पॉलीपेप्टाइड के निर्गम का अवरोधन
(D)	केसुगामाइसिन	(IV)	EF.G विघटन का अवरोधन

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

1. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)
2. (A)–(II); (B)–(IV); (C)–(III); (D)–(I)
3. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
4. (A)–(II); (B)–(III); (C)–(I); (D)–(IV)

Options :
920906102325. 1
920906102326. 2
920906102327. 3
920906102328. 4

Question Number : 83 Question Id : 92090625895 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : Gastrulation in frog begins at a point on the embryo surface called blastopore.

Reason (R) : Hensen's node is the functional equivalent of the dorsal lip of the amphibian blastopore.

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 :

920906102329. 1

920906102330. 2

920906102331. 3

920906102332. 4

Question Number : 83 Question Id : 92090625895 Question Type : MCQ Option Shuffling : No 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) : उभयचरों में कंदुकन भ्रूण की सतह पर एक बिंदु जिसे कोरकरंध्र कहते हैं, पर आरंभ होता है।

कारण (R) : हेनसेन गाँठ उभयचर के कोरकरंध्र के पृष्ठ ओष्ठ का कार्यात्मक तुल्य है।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

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Options :

920906102329. 1

920906102330. 2

920906102331. 3

920906102332. 4

Question Number : 84 Question Id : 92090625896 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

HAT selection media used in monoclonal antibody production consist of

1. hygromycin, ampicillin and tetracycline
2. hypoxanthine, adenine and thymine
3. hypoxanthine, aminopterin and thymidine
4. hypoxanthine, aminopterin and thyroxine

Options :

920906102333. 1

920906102334. 2

920906102335. 3

920906102336. 4

Question Number : 84 Question Id : 92090625896 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एकक्लोनीय प्रतिरक्षी उत्पादन में उपयोग में लाये जाने वाले HAT चयन माध्यम में पाये जाने वाले पदार्थ हैं

1. हाइग्रोमाइसिन, एम्पीसिलिन तथा टेट्रासाइक्लिन
2. हाइपोजैंथिन, एडीनिन तथा थायमीन
3. हाइपोजैंथिन, एमीनोप्टैनिन तथा थायमिडिन
4. हाइपोजैंथिन, एमीनोप्टैनिन तथा थाइरॉक्सिन

Options :

920906102333. 1

920906102334. 2

920906102335. 3

920906102336. 4

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Question Number : 85 Question Id : 92090625897 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Assertion (A) : DNA fragments from any source can be cloned into a plasmid.

Reason (R) : A plasmid can be transferred to other cells by gene transfer mechanism such as transformation and transduction.

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 :

920906102337. 1

920906102338. 2

920906102339. 3

920906102340. 4

Question Number : 85 Question Id : 92090625897 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : किसी भी स्रोत से लिए गए डी. एन. ए. खंडों को प्लास्मिड में क्लोन किया जा सकता है।

कारण (R) : प्लास्मिड को जीन स्थानांतरण प्रणालियों जैसे रूपांतरण और पारक्रमण द्वारा दूसरी कोशिकाओं में स्थानांतरण किया जा सकता है।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102337. 1
920906102338. 2
920906102339. 3
920906102340. 4

Question Number : 86 Question Id : 92090625898 Question Type : MCQ Option Shuffling : No 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 is a stable genetic material.

Reason (R) : DNA is double-stranded only.

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

AGRIGYAN.IN

Options :

920906102341. 1

920906102342. 2

920906102343. 3

920906102344. 4

Question Number : 86 Question Id : 92090625898 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

अभिकथन (A) : डी. एन. ए. एक स्थिर आनुवंशिक द्रव्य है।

कारण (R) : डी. एन. ए. की केवल द्विकुंडलिनी संरचना होती है।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102341. 1

920906102342. 2

920906102343. 3

920906102344. 4

Question Number : 87 Question Id : 92090625899 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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

Assertion (A) : Activated macrophages are more effective than resting ones in eliminating pathogens.

Reason (R) : Activated macrophages show increased phagocytic activity and ability to activate T cells.

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

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

Options :

920906102345. 1

920906102346. 2

920906102347. 3

920906102348. 4

Question Number : 87 Question Id : 92090625899 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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) : सक्रिय बृहत्भक्षकाणु जीवाणुओं को नष्ट करने में विराम भक्षकाणुओं से अधिक असरदार होते हैं।

कारण (R) : सक्रिय बृहत्भक्षकाणु अधिक भक्षकाणु क्रिया और टी. कोशिकाओं को सक्रिय करने की क्षमता दर्शाते हैं।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102345. 1
920906102346. 2
920906102347. 3
920906102348. 4

Question Number : 88 Question Id : 92090625900 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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

Assertion (A) : Only a few specific strains of *E.coli* are routinely used in recombinant DNA technology.

Reason (R) : *E.coli* divides rapidly under laboratory conditions than their native counterparts.

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 :

920906102349. 1

920906102350. 2

920906102351. 3

920906102352. 4

Question Number : 88 Question Id : 92090625900 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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) : केवल कुछ ही *ई. कोलाई* के प्रभेदों का उपयोग नियमतन पुनर्योजक डी. एन. ए. तकनीक में किया जाता है।

कारण (R) : प्राकृतिक परिस्थितियों के अनुपात में *ई. कोलाई* प्रयोगशाला की परिस्थितियों में तेजी से विभाजन करता है।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102349. 1
920906102350. 2
920906102351. 3
920906102352. 4

Question Number : 89 Question Id : 92090625901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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

Assertion (A) : Four distinctive characteristics of phylum Chordata are notochord; single, dorsal, tubular nerve cord; pharyngeal pouches and postanal tail.

Reason (R) : The distinctive characteristics of phylum Chordata remain unchanged throughout the life of these animals.

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 :

920906102353. 1

920906102354. 2

920906102355. 3

920906102356. 4

Question Number : 89 Question Id : 92090625901 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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) : रज्जुकी (कार्डेटा) संघ के चार विशिष्ट लक्षण हैं नोटोकॉर्ड, एकल पृष्ठनलिका, तंत्रिका रज्जू, ग्रसनी कोष्ठ और परगुद पुच्छ।

कारण (R) : रज्जुकी संघ के विशिष्ट लक्षण इन जानवरों के जीवन पर्यंत नहीं बदलते।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102353. 1
920906102354. 2
920906102355. 3
920906102356. 4

Question Number : 90 Question Id : 92090625902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

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

Assertion (A) : *Archaeopteryx lithographica* demonstrates phylogenetic relatedness between birds and reptiles.

Reason (R) : *Archaeopteryx lithographica* was approximately the size of a crow with imprints of feathers, possessed beak-like jaws with small bony teeth set in sockets and a reptilian skeleton with a long bony tail.

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 :

920906102357. 1

920906102358. 2

920906102359. 3

920906102360. 4

Question Number : 90 Question Id : 92090625902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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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) : *आरकिओप्टैरिक्स लिथोग्राफिका* पक्षियों और सरीसृपों के बीच जतिवृत्तीय संबंध दर्शाता है।

कारण (R) : *आरकिओप्टैरिक्स लिथोग्राफिका* लगभग कौए के आकार का था जिसमें पंखों के अधिचिह्न, चोंच जैसे जबड़ा, जिसमें छोटे अस्थिल दाँत, गर्तिका में स्थापित थे और सरीसृप का कंकाल एक लंबी अस्थिल पूँछ के साथ था।

उपर्युक्त कथनों के आलोक में, नीचे दिए गए विकल्पों में से **सही उत्तर** का चयन कीजिए :

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

Options :

920906102357. 1
920906102358. 2
920906102359. 3
920906102360. 4

Question Number : 91 Question Id : 92090625903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which one of the following methods can be used for detecting DNA-protein interaction?

1. Southern blotting
2. In-situ hybridization
3. Chromatin immunoprecipitation
4. Amplified fragment length polymorphism

Options :

920906102361. 1
920906102362. 2
920906102363. 3
920906102364. 4

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Question Number : 91 Question Id : 92090625903 Question Type : MCQ Option Shuffling : No 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-सी प्रणाली का उपयोग डी. एन. ए. प्रोटीन पारस्परिक क्रिया की जाँच करने के लिए किया जाता है?

1. सदर्न ब्लॉटिंग
2. स्व-स्थाने संकरण
3. क्रोमेटिन प्रतिरक्षी अवक्षेपण
4. प्रवर्धित लंबाई खंड का बहुरूपण

Options :

920906102361. 1

920906102362. 2

920906102363. 3

920906102364. 4

Question Number : 92 Question Id : 92090625904 Question Type : MCQ Option Shuffling : No 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 a PCR, the reaction tubes are incubated first at 94 °C for 3 minutes, at 58 °C for 1 minute and at 72 °C for 2 minutes. What is the sequence of processes happening inside the tubes containing DNA template, dNTPs and Taq DNA polymerase?

1. Denaturation, elongation, annealing
2. Annealing, denaturation, elongation
3. Denaturation, annealing, elongation
4. Annealing, elongation, denaturation

Options :

920906102365. 1

920906102366. 2

920906102367. 3

920906102368. 4

Question Number : 92 Question Id : 92090625904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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Correct Marks : 4 Wrong Marks : 1

एक पी. सी. आर. में, डी. एन. ए. टेम्पलेट, dNTPs तथा टैक डी. एन. ए .पॉलिमेरेस वाली अभिक्रिया नलिकाओं को सर्वप्रथम 94 °C पर 3 मिनट के लिए, 58 °C पर 1 मिनट तथा 72 °C पर 2 मिनट के लिए ऊष्मायन किया जाता है। नलिकाओं में होने वाली प्रक्रियाओं का सही क्रम क्या है?

1. निष्क्रियकरण, प्रसार, तापानुशीलन
2. तापानुशीलन, निष्क्रियकरण, प्रसार
3. निष्क्रियकरण, तापानुशीलन, प्रसार
4. तापानुशीलन, प्रसार, निष्क्रियकरण

Options :

920906102365. 1
920906102366. 2
920906102367. 3
920906102368. 4

Question Number : 93 Question Id : 92090625905 Question Type : MCQ Option Shuffling : No 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 (Scientists)		List–II (Contribution)
(A)	Maxam-Gilbert	(I)	DNA polymerase isolation
(B)	Stanley Cohen	(II)	DNA sequencing
(C)	Kornberg	(III)	Genetic code
(D)	Har Gobind Khorana	(IV)	DNA cloning

Choose the correct answer from the options given below :

1. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
2. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
3. (A)–(I); (B)–(II); (C)–(IV); (D)–(III)
4. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)

Options :

920906102369. 1

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920906102370. 2
920906102371. 3
920906102372. 4

Question Number : 93 Question Id : 92090625905 Question Type : MCQ Option Shuffling : No 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 (वैज्ञानिक)		सूची–II (योगदान)
(A)	मैक्सम-गिल्बर्ट	(I)	डी .एन. ए. पॉलिमरेस पृथक्करण
(B)	स्टैनले कोहन	(II)	डी. एन. ए. अनुक्रमण
(C)	कॉर्नबर्ग	(III)	आनुवांशिक कूट
(D)	हरगोबिंद खुराना	(IV)	डी. एन. ए. क्लोनिंग

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

1. (A)–(II); (B)–(III); (C)–(IV); (D)–(I)
2. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
3. (A)–(I); (B)–(II); (C)–(IV); (D)–(III)
4. (A)–(II); (B)–(IV); (C)–(I); (D)–(III)

Options :

920906102369. 1
920906102370. 2
920906102371. 3
920906102372. 4

Question Number : 94 Question Id : 92090625906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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Match List–I with List–II :

	List–I (Hormone/Factor)		List–II (Role)
(A)	Erythropoietin	(I)	Enhancement of immune function
(B)	Platelet derived growth factor	(II)	Treatment of infertility
(C)	Chorionic gonadotropin	(III)	Stimulate formation of RBCs
(D)	Interleukin	(IV)	Stimulate wound healing

Choose the correct answer from the options given below :

1. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
4. (A)–(III); (B)–(IV); (C)–(I); (D)–(II)

Options :

920906102373. 1

920906102374. 2

920906102375. 3

920906102376. 4

Question Number : 94 Question Id : 92090625906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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सूची–I के साथ सूची–II का मिलान कीजिए :

	सूची–I (हार्मोन/कारक)		सूची–II (भूमिका)
(A)	एरिथ्रोपॉयटिन	(I)	प्रतिरक्षा कार्यों का संवर्धन
(B)	पटिट्काणुओं से प्राप्त किया गया वृद्धि कारक	(II)	अनुर्वरता का उपचार
(C)	जरायु गोनैडोट्रॉपिन	(III)	लाल रक्त कणिकाओं के निर्माण को प्रेरित करना
(D)	इंटरल्यूकिन	(IV)	घाव के भरने को प्रेरित करना

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

1. (A)–(III); (B)–(IV); (C)–(II); (D)–(I)
2. (A)–(IV); (B)–(III); (C)–(II); (D)–(I)
3. (A)–(IV); (B)–(III); (C)–(I); (D)–(II)
4. (A)–(III); (B)–(IV); (C)–(I); (D)–(II)

Options :

920906102373. 1

920906102374. 2

920906102375. 3

920906102376. 4

Sub-Section Number : 2

Sub-Section Id : 920906831

Question Shuffling Allowed : No

Is Section Default? : null

Question Id : 92090625907 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

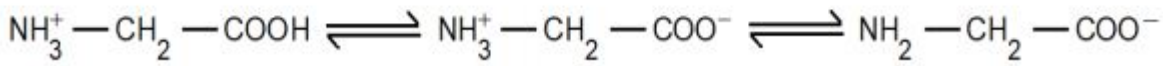
Question Numbers : (95 to 97)

Question Label : Comprehension

AGRIGYAN.IN

Based on the context given below, answer the following questions:

Glycine is most often used as a buffering agent in biochemical experiments. This diprotic amino acid has a p*K*a value of 2.4 owing to carboxyl group and 9.6 owing to amino group. Glycine can exist as a zwitterion which can exist in either protonated form $\left(NH_3^+\right)$ or as a free base $\left(-NH_2\right)$ because of the reversible reaction :



Sub questions

Question Number : 95 Question Id : 92090625908 Question Type : MCQ Option Shuffling : No 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 characteristic pH, at which the net electric charge is zero, achieved at

1. 2.4
2. 6.0
3. 7.5
4. 9.6

Options :

920906102377. 1

920906102378. 2

920906102379. 3

920906102380. 4

Question Number : 96 Question Id : 92090625909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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In 0.1 *M* solution of glycine at pH 9.0, what fraction of glycine has its amino group in $-NH_3^+$ form?

1. 4/5
2. 1/5
3. 4/6
4. 5/6

Options :

920906102381. 1
920906102382. 2
920906102383. 3
920906102384. 4

Question Number : 97 Question Id : 92090625910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Glycine is highly conserved amino acid because

1. it allows polypeptide chain to make turns
2. it exists as zwitterion
3. its α-carbon is bonded to four different groups
4. it induces polarity

Options :

920906102385. 1
920906102386. 2
920906102387. 3
920906102388. 4

Question Id : 92090625907 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 : (95 to 97)

Question Label : Comprehension

AGRIGYAN.IN

ग्लाइसीन का अधिकतर उपयोग जैवरासायनिक प्रयोगों में उभय प्रतिरोधन कर्मक के रूप में किया जाता है। यह द्वि-प्रोटीक अमीनो अम्ल का pKa मान कार्बोक्सिल समूह के होने से 2.4 है और अमीनो समूह के होने से 9.6 है। ग्लाइसीन उभयाविष्ट आयन के रूप में विद्यमान हो सकता है जो उत्क्रमणीय अभिक्रिया के कारण से एक प्रोटॉनित रूप $\left(NH_3^+\right)$ या एक मुक्त क्षार $\left(-NH_2\right)$ के रूप में होता है :

$$NH_3^+ - CH_2 - COOH \rightleftharpoons NH_3^+ - CH_2 - COO^- \rightleftharpoons NH_2 - CH_2 - COO^-$$

उपर्युक्त अनुच्छेद के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए:

Sub questions

Question Number : 95 Question Id : 92090625908 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

विशिष्ट pH जिस पर कुल विद्युत् आवेश शून्य प्राप्त होता है, वह है:

1. 2.4
2. 6.0
3. 7.5
4. 9.6

Options :
920906102377. 1
920906102378. 2
920906102379. 3
920906102380. 4

Question Number : 96 Question Id : 92090625909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

0.1 M ग्लाइसीन का विलयन जिसका pH 9.0 है, उसमें ग्लाइसीन का कितना भाग अमीनो समूह $-NH_3^+$ के रूप में है?

1. 4/5
2. 1/5
3. 4/6
4. 5/6

Options :
920906102381. 1
920906102382. 2
920906102383. 3
920906102384. 4

Question Number : 97 Question Id : 92090625910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

ग्लाइसीन एक अति संरक्षित अमीनो अम्ल है क्योंकि

1. यह पॉलिपेप्टाइड श्रृंखला के मुड़ने में सहायता करता है
2. यह उभयाविष्ट आयन के रूप में विद्यमान होता है
3. इसका α-कार्बन चार अलग समूहों के साथ बंधित होता है
4. यह ध्रुवणता को प्रेरित करता है

Options :
920906102385. 1
920906102386. 2
920906102387. 3
920906102388. 4

Sub-Section Number :	3
Sub-Section Id :	920906832
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 92090625911 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 : (98 to 100)

AGRIGYAN.IN

Question Label : Comprehension

Based on the context given below, answer the following questions:

DNA in eukaryotes is a double-helical structure with two anti-parallel strands intertwined equidistantly. The double-helical structure was deciphered by James Watson and Francis Crick on the basis of X-ray diffraction studies. The hydrophilic backbones of alternating sugar and phosphate groups are on the outside of the helix held together by phosphodiester bonds. The purine and pyrimidine bases of both the strands are stacked inside the double helix. Adenine binds with thymine with hydrogen bond and cytosine binds with guanine with hydrogen bond. The DNA is transcribed into messenger RNA, ribosomal RNA and transfer RNA. Messenger RNA is translated into protein in the cytoplasm.

Sub questions

Question Number : 98 Question Id : 92090625912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

X-ray diffraction experiment to analyze the structure of DNA was performed by

1. James Watson and Francis Crick
2. Rosalind Franklin and Maurice Wilkins
3. Tom Cech and Sidney Altman
4. Martha Chase and Alfred Hershey

Options :

920906102389. 1

920906102390. 2

920906102391. 3

920906102392. 4

Question Number : 99 Question Id : 92090625913 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

Consider a DNA segment :

5′ – G T A A C C T A C C G – 3′

3′ – C A T T G G A T G G C – 5′

If the RNA polymerase transcribes the segment from left to right, the mRNA sequence would be

1. 5′ – C A U U G G A U G G C – 3′
2. 5′ – G U A A C C U A C C G – 3′
3. 5′ – C G G U A G G U U A C – 3′
4. 5′ – G C C A U C C A A U G – 3′

Options :

920906102393. 1

920906102394. 2

920906102395. 3

920906102396. 4

Question Number : 100 Question Id : 92090625914 Question Type : MCQ Option Shuffling : No 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 a 1300 (base-pair) DNA, if number of adenine residues are 800, what is the number of Watson-Crick hydrogen bonds between cytosine and guanine residues?

1. 500
2. 1000
3. 1500
4. 3000

Options :

920906102397. 1

920906102398. 2

920906102399. 3

920906102400. 4

Question Id : 92090625911 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 : (98 to 100)

AGRIGYAN.IN

Question Label : Comprehension

ससीम केन्द्रकी (यूकेरियोट) में डी.एन.ए. एक द्विकुंडली संरचना है। इसकी दो शृंखलाएँ प्रति समानांतर, कुंडलित और एक समान दूरी पर होती हैं। द्विकुंडली संरचना का नमूना जेम्स वाट्सन और फ्रांन्सिस क्रीक ने एक्स-रे निवर्तन आँकड़े के आधार पर दिया। जलरागी आधार शर्करा-फॉस्फेट का बना होता है व क्षार भीतर की ओर प्रक्षेपी होता है। दोनों शृंखलाएँ फोस्फोडाइस्टर आबंधों से जुड़ी होती हैं। द्विकुंडली में प्यूरीन और पिरीमिडीन एक क्षार युग्म की सतह पर एक के ऊपर एक स्थित होते हैं। एडीनीन, हाइड्रोजन बंध द्वारा थाइमिन से युग्मित होती है और साइटोसिन, ग्वानीन के साथ हाइड्रोजन बंध द्वारा बँधा रहता है। डी.एन.ए, का अनुलेखन, दूत आर.एन.ए., राइबोसोमल आर.एन.ए. और अंतरण आर.एन.ए. में होता है। दूत आर.एन.ए. का रूपांतरण कोशिका द्रव्य में प्रोटीनों में होता है।

उपर्युक्त अनुच्छेद के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए :

Sub questions

Question Number : 98 Question Id : 92090625912 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

डी.एन.ए. की संरचना का विश्लेषण करने के लिए एक्स-रे निवर्तन प्रयोग किनके द्वारा किया गया?

1. जेम्स वाट्सन और फ्रांन्सिस क्रीक
2. रोजालिंड फ्रैंकलिन और मौरिस विल्किन्स
3. टॉम सैक और सिडनी ऑल्टमैन
4. मार्था चेस और अलफ्रेड हर्षे

Options :
920906102389. 1
920906102390. 2
920906102391. 3
920906102392. 4

Question Number : 99 Question Id : 92090625913 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1

AGRIGYAN.IN

नीचे दिए गए डी.एन.ए. खंड :

5′ — G T A A C C T A C C G – 3′

3′ — C A T T G G A T G G C – 5′

के सन्दर्भ में यदि आर.एन.ए. पॉलिमरेस इस खंड को बाएँ से दाएँ ओर रूपांतरण करता है, तो दूत आर.एन.ए. (mRNA) का अनुक्रम होगा –

1. 5′ — C A U U G G A U G G C – 3′
2. 5′ — G U A A C C U A C C G – 3′
3. 5′ — C G G U A G G U U A C – 3′
4. 5′ — G C C A U C C A A U G – 3′

Options :

920906102393. 1
920906102394. 2
920906102395. 3
920906102396. 4

Question Number : 100 Question Id : 92090625914 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि किसी 1300 क्षार युग्मक डी.एन.ए. में एडीनीन की संख्या 800 है, तो ग्वानिन और साइटोसीन के बीच वाट्सन-क्रीक हाइड्रोजन आबंधों की कितनी संख्या होगी?

1. 500
2. 1000
3. 1500
4. 3000

Options :

920906102397. 1
920906102398. 2
920906102399. 3
920906102400. 4

AGRIGYAN.IN