

DSSSB Exam July 2025

Participant ID	25127S35D112817533641734946
Participant Name	25127S35D112817533641734946
Test Center Name	ION Digital Zone IDZ 2 Sector 62
Test Date	24/07/2025
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Subject	PGT Biology

Section : Mental Ability and Reasoning Ability

Q P, Q, R, A, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on, till the topmost floor is numbered 6. Only two people live between F and R. Only A lives above P. E lives on an even numbered floor. F lives on the lowermost floor. How many people live between Q and A? ³¹⁴⁷

- Answers
- ☒ 1. Four
 - ☒ 2. Two
 - ☒ 3. One
 - ☒ 4. Three

Question ID : 441009841477
 Option 1 ID : 4410093318979
 Option 2 ID : 4410093318977
 Option 3 ID : 4410093318976
 Option 4 ID : 4410093318978

Q This question is based on the following words.

2 (Left) PLY SHA THE VET (Right)

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear? ²⁶⁰⁷

- Answers
- ☒ 1. Three
 - ☒ 2. One
 - ☒ 3. Two
 - ☒ 4. Four

Question ID : 441009840937
 Option 1 ID : 4410093316817
 Option 2 ID : 4410093316819
 Option 3 ID : 4410093316818
 Option 4 ID : 4410093316816

Q Given below is a statement followed by two possible reasons numbered I and II. Read the statement carefully and decide which of the two reasons explain(s) the event/observation/information given in the statement.

3 **Statement:** The pass percentage of girl students in class XII board exams was 91% in District X. However, only 56% girl students applied for admission to undergraduate courses.

Reasons:

- I) 92% boy students applied for admission to undergraduate courses.
- II) The nearest college offering undergraduate courses is 160 km away in district Y. ⁶⁶⁹

- Answers
- ☒ 1. Only II is a possible reason.
 - ☒ 2. Neither I nor II is a possible reason.
 - ☒ 3. Both I and II are possible reasons.
 - ☒ 4. Only I is a possible reason.

Question ID : 441009844713
 Option 1 ID : 4410093331717
 Option 2 ID : 4410093331718
 Option 3 ID : 4410093331719
 Option 4 ID : 4410093331716

Q Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements: All trucks are buses. All buses are cars. All cars are jets.

Conclusion (I): All trucks are cars.

Conclusion (II): All buses are jets. 3176

- Ans
- ☒ 1. Only conclusion I follows.
- ☒ 2. Only conclusion II follows.
- ☒ 3. Both conclusions I and II follow.
- ☒ 4. Neither conclusion I nor II follows.

Question ID : 441009841506
 Option 1 ID : 4410093319092
 Option 2 ID : 4410093319093
 Option 3 ID : 4410093319094
 Option 4 ID : 4410093319095

Q This question is based on the following words.

5 (Left) THY SAD RIM MEN (Right)

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear? 2605

- Ans
- ☒ 1. Two
- ☒ 2. One
- ☒ 3. Three
- ☒ 4. Four

Question ID : 441009840935
 Option 1 ID : 4410093316810
 Option 2 ID : 4410093316811
 Option 3 ID : 4410093316809
 Option 4 ID : 4410093316808

Q What should come in place of the question mark (?) in the following series?

6 36, 68, 100, 132, 164, ? 544

- Ans
- ☒ 1. 190
- ☒ 2. 196
- ☒ 3. 212
- ☒ 4. 188

Question ID : 441009844588
 Option 1 ID : 4410093331219
 Option 2 ID : 4410093331218
 Option 3 ID : 4410093331216
 Option 4 ID : 4410093331217

Q 'A + B' means 'A is the mother of B'

'A - B' means 'A is the father of B'

'A \$ B' means 'A is the son of B'

'A % B' means 'A is the sister of B'

'A # B' means 'A is the daughter of B'

Which of the following means that Z is the husband of P? 3066

- Ans
- ☒ 1. P + Q % D \$ Z
- ☒ 2. P # D \$ Q + Z
- ☒ 3. P % Q - D \$ Z
- ☒ 4. P + Q - D # Z

Question ID : 441009841396
 Option 1 ID : 4410093318652
 Option 2 ID : 4410093318654
 Option 3 ID : 4410093318653
 Option 4 ID : 4410093318655

Q Select the option that is related to the third term in the same way the second term is related to the first term and the sixth term is related to the fifth term.

8
37 : 1369 :: 27 : ? :: 17 : 289

- Answers
- ☒ 1. 799
 - ☒ 2. 786
 - ☒ 3. 749
 - ☒ 4. 729

Question ID : 441009844571
Option 1 ID : 4410093331149
Option 2 ID : 4410093331148
Option 3 ID : 4410093331151
Option 4 ID : 4410093331150

Q In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

9 DKR, HOV, LSZ, POD, TAH, XEL

- Answers
- ☒ 1. LSZ
 - ☒ 2. XEL
 - ☒ 3. POD
 - ☒ 4. TAH

Question ID : 441009841258
Option 1 ID : 4410093318102
Option 2 ID : 4410093318101
Option 3 ID : 4410093318100
Option 4 ID : 4410093318103

Q Yash starts from point A and drives 3 km towards the west. He then takes a left turn and drives 5 km to reach a point B. Rajesh starts from point X, which is 5 km south of point B, and drives 7 km towards the east. He then takes a left turn and drives 5 km to reach a point Y. What is the shortest distance between point B and point Y? (All turns are 90° turns only.)

- Answers
- ☒ 1. 4 km
 - ☒ 2. 7 km
 - ☒ 3. 3 km
 - ☒ 4. 5 km

Question ID : 441009841530
Option 1 ID : 4410093319190
Option 2 ID : 4410093319188
Option 3 ID : 4410093319191
Option 4 ID : 4410093319189

Q A certain number of people are sitting in a row, facing north. P sits to the immediate right of Q. R sits third to the left of S. Only three people sit between P and T. Q sits somewhere to the left of T. S sits somewhere between P and T. If no other person is sitting in the row, what is the total number of people seated?

- Answers
- ☒ 1. 7
 - ☒ 2. 6
 - ☒ 3. 9
 - ☒ 4. 10

Question ID : 441009841599
Option 1 ID : 4410093319465
Option 2 ID : 4410093319464
Option 3 ID : 4410093319466
Option 4 ID : 4410093319467

Q 36 is related to 12 following a certain logic. Following the same logic, 96 is related to 32. To which of the given options is 78 related, following the same logic?

1

2 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Answers

✓ 1. 26

- ✗ 2. 70
- ✗ 3. 34
- ✗ 4. 15

Question ID : 441009844573
 Option 1 ID : 4410093331157
 Option 2 ID : 4410093331158
 Option 3 ID : 4410093331159
 Option 4 ID : 4410093331156

Q What will come in place of the question mark (?) in the following equation if '-' and '+' are interchanged and '+' and 'x' are interchanged?

1

3 6 x 2 ÷ 3 x 45 - 9 x 4 = ? 586

Answers

✓ 1. 14

- ✗ 2. 20
- ✗ 3. 17
- ✗ 4. 25

Question ID : 441009844630
 Option 1 ID : 4410093331384
 Option 2 ID : 4410093331386
 Option 3 ID : 4410093331385
 Option 4 ID : 4410093331387

Q If 'P' stands for '+', 'Q' stands for 'x', 'A' stands for '-' and 'D' stands for '÷', then what will come in place of the question mark (?) in the following equation?

1

4 92 D 682 P 22 A 7 Q 14 = ? 617

Answers

✗ 1. 136

- ✓ 2. 159
- ✗ 3. 104
- ✗ 4. 92

Question ID : 441009844661
 Option 1 ID : 4410093331510
 Option 2 ID : 4410093331511
 Option 3 ID : 4410093331509
 Option 4 ID : 4410093331508

Q Select the letter-cluster which follows the same pattern as that followed by the two letter-clusters given below.

1 JG-LQ-NP

5 LI-NS-PR³¹²⁹

Answers

✓ 1. OL-QV-SU

- ✗ 2. OL-QU-SV
- ✗ 3. PL-NU-SV
- ✗ 4. PL-MU-RV

Question ID : 441009841459
 Option 1 ID : 4410093318904
 Option 2 ID : 4410093318905
 Option 3 ID : 4410093318906
 Option 4 ID : 4410093318907

Q In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

1 HEB JGD LIF NKG PMJ ROL

A ☒ 1. NKG

☒ 2. HEB

☒ 3. LIF

☒ 4. JGD

Question ID : 441009841427

Option 1 ID : 4410093318776

Option 2 ID : 4410093318777

Option 3 ID : 4410093318779

Option 4 ID : 4410093318778

Q Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.

1 In row 1, D, E, A and L are seated and all of them are facing south.

7 In row 2, I, K, O and N are seated and all of them are facing north.

Thus, each person faces another person from the other row. A sits third to the right of E. I sits third to the left of N. The one facing L is an immediate neighbour of N. D sits at some place to the right of L and is not facing K. Which of the following represents both people sitting at extreme ends of the line?

A ☒ 1. I and L

☒ 2. A and N

☒ 3. A and K

☒ 4. E and O

Question ID : 441009841353

Option 1 ID : 4410093318481

Option 2 ID : 4410093318480

Option 3 ID : 4410093318482

Option 4 ID : 4410093318483

Q Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

1 (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

8 3041

A ☒ 1. VXZ

☒ 2. BDF

☒ 3. QUS

☒ 4. WYA

Question ID : 441009841371

Option 1 ID : 4410093318555

Option 2 ID : 4410093318554

Option 3 ID : 4410093318552

Option 4 ID : 4410093318553

Q Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?

1 (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

9

A ☒ 1. OS-UP

☒ 2. EI-KF

☒ 3. KO-QK

☒ 4. HL-NI

Question ID : 441009841437

Option 1 ID : 4410093318816

Option 2 ID : 4410093318819

Option 3 ID : 4410093318817

Option 4 ID : 4410093318818

Q In a certain code,
 1 'you not the one' is coded as 'qz wx ec rv',
 2 'the one what i' is coded as 'ec rv tb yn',
 0 'know in not my' is coded as 'um ic wx on', and
 'the i days in' is coded as 'ec yn pn ic'.
 (Note: All the codes are two letter coded only.)

What is the possible code for 'my'?

- Answers
- ☒ 1. Either 'ic' or 'on'
 - ☒ 2. Either 'on' or 'um'
 - ☒ 3. Either 'wx' or 'ic'
 - ☒ 4. Either 'on' or 'wx'

Question ID : 441009840952
 Option 1 ID : 4410093316877
 Option 2 ID : 4410093316879
 Option 3 ID : 4410093316876
 Option 4 ID : 4410093316878

Section : General Awareness

Q The Kaveri River rises in which range of the Western Ghats?

- Answers
- ☒ 1. Cardamom
 - ☒ 2. Brahmagiri
 - ☒ 3. Garhjat
 - ☒ 4. Satmala

Question ID : 441009867025
 Option 1 ID : 4410093421134
 Option 2 ID : 4410093421133
 Option 3 ID : 4410093421135
 Option 4 ID : 4410093421132

Q How does improved infrastructure affect economic development?

- Answers
- ☒ 1. By decreasing the mobility of goods
 - ☒ 2. By reducing connectivity and communication
 - ☒ 3. By facilitating efficient movement of goods and services, leading to growth
 - ☒ 4. By increasing isolation of rural areas

Question ID : 44100921670
 Option 1 ID : 44100986427
 Option 2 ID : 44100986428
 Option 3 ID : 44100986430
 Option 4 ID : 44100986429

Q On which date is Gandhi Jayanti celebrated every year?

- Answers
- ☒ 1. 15th August
 - ☒ 2. 26th January
 - ☒ 3. 2nd October
 - ☒ 4. 14th November

Question ID : 441009232692
 Option 1 ID : 441009909199
 Option 2 ID : 441009909201
 Option 3 ID : 441009909200
 Option 4 ID : 441009909202

Q The President of India is elected by means of ____.

.
4

A
n
s

- ☒ 1. alternate vote plus
- ☒ 2. the negative vote system
- ☒ 3. first past the post
- ☒ 4. single transferable vote

Question ID : 441009870669
Option 1 ID : 4410093435629
Option 2 ID : 4410093435631
Option 3 ID : 4410093435628
Option 4 ID : 4410093435630

Q In which of the following years had Chandragupta Vikramaditya introduced a new calendar system known as Vikrama Samvat?

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5

A
n
s

- ☒ 1. 57 BC
- ☒ 2. 52 BC
- ☒ 3. 54 BC
- ☒ 4. 56 BC

Question ID : 441009868333
Option 1 ID : 4410093426365
Option 2 ID : 4410093426366
Option 3 ID : 4410093426363
Option 4 ID : 4410093426364

Q How many Indian members were appointed in the 'Indian Statutory Commission' during the British period?

.
6

A
n
s

- ☒ 1. Five
- ☒ 2. Zero
- ☒ 3. Three
- ☒ 4. Two

Question ID : 441009868276
Option 1 ID : 4410093426137
Option 2 ID : 4410093426135
Option 3 ID : 4410093426136
Option 4 ID : 4410093426138

Q Which gram-negative microaerophilic bacterium infects the human stomach and causes peptic ulcer disease (PUD)?

.
7

A
n
s

- ☒ 1. Enterococcus faecalis
- ☒ 2. Campylobacter coli
- ☒ 3. Helicobacter pylori
- ☒ 4. Neisseria meningitidis

Question ID : 441009891498
Option 1 ID : 4410093519973
Option 2 ID : 4410093519972
Option 3 ID : 4410093519974
Option 4 ID : 4410093519975

Q How many questions were canvassed during the Population Enumeration of the Census of India 2011?

8
Answers

- ☒ 1. 35
- ☒ 2. 15
- ☒ 3. 23
- ☒ 4. 29

Question ID : 441009867015
Option 1 ID : 4410093421095
Option 2 ID : 4410093421092
Option 3 ID : 4410093421093
Option 4 ID : 4410093421094

Q Which of the following operations was reported in May 2025 for protecting Olive Ridley turtles in Odisha?

9
Answers

- ☒ 1. Operation Samudra Raksha by the Indian Navy
- ☒ 2. Mission Turtle Shield by the Wildlife Board
- ☒ 3. Operation Olivia by the Indian Coast Guard
- ☒ 4. Project Ocean Nest by the Ministry of Fisheries

Question ID : 441009688796
Option 1 ID : 4410092709212
Option 2 ID : 4410092709211
Option 3 ID : 4410092709210
Option 4 ID : 4410092709213

Q Which physicist from Raman Research Institute is part of the international collaboration demonstrating laser-cooled Positronium for the first time in the world?

10
Answers

- ☒ 1. Prof Maya Patel
- ☒ 2. Dr Sanjay Gupta
- ☒ 3. Dr Priya Singh
- ☒ 4. Prof Sadiq Rangwala

Question ID : 441009704809
Option 1 ID : 4410092773267
Option 2 ID : 4410092773268
Option 3 ID : 4410092773269
Option 4 ID : 4410092773266

Q Who among the following is NOT eligible to hold office for a second term?

11
Answers

- ☒ 1. Chief Vigilance Commissioner
- ☒ 2. Chief Election Commissioner
- ☒ 3. Chairperson of the UPSC
- ☒ 4. Chairman of the Finance Commission

Question ID : 441009870734
Option 1 ID : 4410093435890
Option 2 ID : 4410093435889
Option 3 ID : 4410093435888
Option 4 ID : 4410093435891

Q Which of the following options is related to the cell's energy currency?

1
2
Answers

☒ 1. Endoplasmic reticulum

☒ 2. ATP (adenosine triphosphate)

☒ 3. NaCl (sodium chloride)

☒ 4. Oxygen

Question ID : 441009891494
Option 1 ID : 4410093519958
Option 2 ID : 4410093519959
Option 3 ID : 4410093519956
Option 4 ID : 4410093519957

Q How does privatisation aim to enhance economic efficiency?

1
3
Answers

☒ 1. By focussing only on the public sector

☒ 2. By transferring ownership to private entities, increasing competition and innovation

☒ 3. By increasing government control over enterprises

☒ 4. By limiting technological advancements

Question ID : 44100921696
Option 1 ID : 44100986532
Option 2 ID : 44100986534
Option 3 ID : 44100986531
Option 4 ID : 44100986533

Q Which coffee table book was released by the Odisha Chief Minister, capturing the moments of the FIH Hockey World Cup 2023?

1
4
Answers

☒ 1. FIH Odisha Hockey Men's World Cup 2023

☒ 2. Champions of Hockey 2023

☒ 3. Odisha Hockey Glory 2023

☒ 4. Hockey Stars of Odisha 2023

Question ID : 441009704829
Option 1 ID : 4410092773347
Option 2 ID : 4410092773349
Option 3 ID : 4410092773346
Option 4 ID : 4410092773348

Q As per Climatic Regions of India according to Koeppen's Scheme, which of the following states is related to the 'Monsoon type with short dry season' climate?

1
5
Answers

☒ 1. Arunachal Pradesh

☒ 2. Himachal Pradesh

☒ 3. Sikkim

☒ 4. Kerala

Question ID : 441009867053
Option 1 ID : 4410093421244
Option 2 ID : 4410093421245
Option 3 ID : 4410093421247
Option 4 ID : 4410093421246

Q A school organises Green Drive and encourages students to plant trees. Which of the Fundamental Duties is being inculcated among the students?

1

6

Answers

- ☐ 1. To safeguard public property and to abjure violence
- ☐ 2. To value and preserve the rich heritage
- ☐ 3. To develop scientific temper and humanism
- ☒ 4. To protect and improve the natural environment

Question ID : 441009870698
 Option 1 ID : 4410093435744
 Option 2 ID : 4410093435747
 Option 3 ID : 4410093435745
 Option 4 ID : 4410093435746

Q Which Article of the Indian Constitution provides for the constitution of a commission to make recommendations for the progressive use of Hindi for official purposes of the Union?

1

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Answers

- ☐ 1. Article 352
- ☐ 2. Article 343
- ☐ 3. Article 351
- ☒ 4. Article 344(1)

Question ID : 441009232680
 Option 1 ID : 441009909151
 Option 2 ID : 441009909154
 Option 3 ID : 441009909153
 Option 4 ID : 441009909152

Q What is the primary objective of the Deen Dayal Upadhyay Grameen Kaushalya Yojana (DDU-GKY) scheme of Government of India?

1

8

Answers

- ☐ 1. To provide free housing to rural youth
- ☒ 2. To skill rural youth and provide them with jobs with regular wages
- ☐ 3. To promote urban migration for employment
- ☐ 4. To offer direct financial assistance to all rural households

Question ID : 441009342704
 Option 1 ID : 4410091336803
 Option 2 ID : 4410091336804
 Option 3 ID : 4410091336806
 Option 4 ID : 4410091336805

Q Which famous Saka ruler's inscription is engraved on a boulder at Girnar or Junagadh?

1

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Answers

- ☒ 1. Rudradaman I
- ☐ 2. Demetrius
- ☐ 3. Antialcidas
- ☐ 4. Menander

Question ID : 441009868323
 Option 1 ID : 4410093426323
 Option 2 ID : 4410093426325
 Option 3 ID : 4410093426326
 Option 4 ID : 4410093426324

Q Which of the following statements regarding the Chhath festival is/are correct?

- 2 I. Chhath is dedicated to the Sun God.
0 II. It is celebrated in the Kartik month.

- Answers
- ☒ 1. Neither I nor II
- ☒ 2. Both I and II
- ☒ 3. Only II
- ☒ 4. Only I

Question ID : 44100970629
Option 1 ID : 441009281130
Option 2 ID : 441009281129
Option 3 ID : 441009281128
Option 4 ID : 441009281127

Section : Numerical Aptitude and Data Interpretation

Q If the cost of 25 kg of sugar is ₹1,200, find the cost of 15 kg of the same sugar.

- Answers
- ☒ 1. ₹720
- ☒ 2. ₹375
- ☒ 3. ₹200
- ☒ 4. ₹850

Question ID : 441009836312
Option 1 ID : 4410093298364
Option 2 ID : 4410093298366
Option 3 ID : 4410093298365
Option 4 ID : 4410093298367

Q If the eight-digit number 60307A96 is completely divisible by 264, then the smallest digit in place of A will be:

- Answers
- ☒ 1. 2
- ☒ 2. 9
- ☒ 3. 5
- ☒ 4. 8

Question ID : 441009836465
Option 1 ID : 4410093298976
Option 2 ID : 4410093298979
Option 3 ID : 4410093298977
Option 4 ID : 4410093298978

Q At what rate (in percentage) per annum on simple interest will a sum of money become 2 times of itself in 4 years?

- Answers
- ☒ 1. 49%
- ☒ 2. 25%
- ☒ 3. 24%
- ☒ 4. 50%

Question ID : 441009836122
Option 1 ID : 4410093297607
Option 2 ID : 4410093297604
Option 3 ID : 4410093297606
Option 4 ID : 4410093297605

Q Find the compound interest if ₹6,000 was invested for 1 year at 20% interest per annum compounded half-yearly.

4

- Answers
- ✓ 1. ₹1,260
 - ✗ 2. ₹7,260
 - ✗ 3. ₹2,640
 - ✗ 4. ₹8,640

Question ID : 441009836407
 Option 1 ID : 4410093298747
 Option 2 ID : 4410093298744
 Option 3 ID : 4410093298746
 Option 4 ID : 4410093298745

Q X, Y, and Z can complete a piece of work in 6 days, 12 days, and 18 days respectively. In how many days will they complete the work if they work together?

5

- Answers
- ✓ 1. $3\frac{3}{11}$ days
 - ✗ 2. $2\frac{3}{11}$ days
 - ✗ 3. $4\frac{3}{11}$ days
 - ✗ 4. $1\frac{3}{11}$ days

Question ID : 441009836292
 Option 1 ID : 4410093298286
 Option 2 ID : 4410093298285
 Option 3 ID : 4410093298287
 Option 4 ID : 4410093298284

Q In a company, A invested ₹1,500 for 4 months, B invested ₹1,200 for 6 months, and C invested ₹3,600 for 2 months. If the company has a profit of ₹680, then the share of A is:

6

- Answers
- ✗ 1. ₹300
 - ✗ 2. ₹240
 - ✗ 3. ₹340
 - ✓ 4. ₹200

Question ID : 441009836357
 Option 1 ID : 4410093298546
 Option 2 ID : 4410093298544
 Option 3 ID : 4410093298547
 Option 4 ID : 4410093298545

Q A tank is filled in 21 hours by three pipes A, B and C. Pipe C is twice as fast as B and B is twice as fast as A. How many hours will pipe A take to fill the tank alone?

7

- Answers
- ✓ 1. 147
 - ✗ 2. 84
 - ✗ 3. 21
 - ✗ 4. 168

Question ID : 441009836471
 Option 1 ID : 4410093299003
 Option 2 ID : 4410093299002
 Option 3 ID : 4410093299001
 Option 4 ID : 4410093299000

Q Evaluate: 60% of 200 + 25% of 80 – 30% of 150

8

Answers

☐ 1. 55

☐ 2. 75

☐ 3. 65

☒ 4. 95

Question ID : 441009836248
Option 1 ID : 4410093298108
Option 2 ID : 4410093298109
Option 3 ID : 4410093298110
Option 4 ID : 4410093298111

Q What is the radius (in cm) of the largest right circular cone that can be cut out from a cube of edge 12.6 cm?

9

Answers

☒ 1. 6.3

☐ 2. 6.1

☐ 3. 6.4

☐ 4. 6.2

Question ID : 441009836757
Option 1 ID : 4410093300146
Option 2 ID : 4410093300144
Option 3 ID : 4410093300147
Option 4 ID : 4410093300145

Q A right prism has height 22 cm, and its base is a triangle with sides 4 cm, 7 cm and 10 cm. What is its lateral surface area (in cm²)?

10

Answers

☐ 1. 489

☒ 2. 462

☐ 3. 544

☐ 4. 364

Question ID : 441009836737
Option 1 ID : 4410093300066
Option 2 ID : 4410093300065
Option 3 ID : 4410093300067
Option 4 ID : 4410093300064

Q Aryan saves 35% of his monthly income and spends the rest of this amount. 22% of his monthly expenditure goes toward his daughter's education. If Aryan spends ₹2,145 every month on his daughter's education, what is his monthly income (in ₹)?

11

Answers

☐ 1. 15,500

☒ 2. 15,000

☐ 3. 14,000

☐ 4. 14,500

Question ID : 441009836216
Option 1 ID : 4410093297983
Option 2 ID : 4410093297982
Option 3 ID : 4410093297980
Option 4 ID : 4410093297981

Q If $(243 \times n)$ is a perfect cube and n is a positive integer, what is the smallest possible value of n ?

- 1
2
Answers
☐ 1. 2
☐ 2. 6
☐ 3. 1
☒ 4. 3

Question ID : 441009836475
Option 1 ID : 4410093299017
Option 2 ID : 4410093299019
Option 3 ID : 4410093299016
Option 4 ID : 4410093299018

Q The average of 13 numbers is 8. If each of these numbers is multiplied by 2, then what will the new average be?

- 1
3
Answers
☒ 1. 16
☐ 2. 13
☐ 3. 2
☐ 4. 8

Question ID : 441009836162
Option 1 ID : 4410093297764
Option 2 ID : 4410093297767
Option 3 ID : 4410093297766
Option 4 ID : 4410093297765

Q A train goes from point A to point B at a speed of 91 km/hr and returns from B to A via the same route at 78 km/hr. The average speed (in km/hr) of the train during the two-way journey is ____.

- 1
4
Answers
☐ 1. 81
☒ 2. 84
☐ 3. 85
☐ 4. 83

Question ID : 441009835635
Option 1 ID : 4410093295657
Option 2 ID : 4410093295656
Option 3 ID : 4410093295659
Option 4 ID : 4410093295658

Q A bag is sold for ₹500 by allowing a discount of 20% on its marked price. Find the marked price of the bag.

- 1
5
Answers
☐ 1. ₹650
☐ 2. ₹635
☐ 3. ₹652
☒ 4. ₹625

Question ID : 441009836425
Option 1 ID : 4410093298818
Option 2 ID : 4410093298819
Option 3 ID : 4410093298817
Option 4 ID : 4410093298816

Q A trader marks his goods at 44% above the cost price and allows a discount of 20% on them. If he gains x% on the sale of these goods, then the value of x is ____.

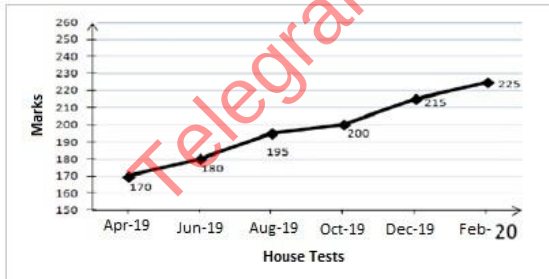
1
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- ☐ 1. 17.2
- ☒ 2. 15.2
- ☐ 3. 16.2
- ☐ 4. 14.2

Question ID : 441009835510
Option 1 ID : 4410093295159
Option 2 ID : 4410093295156
Option 3 ID : 4410093295158
Option 4 ID : 4410093295157

Q In a school, house tests are held every second month. During the session, in April 2019-March 2020, Class IX students appeared for each of the tests. The marks obtained by Mohit in each house test are shown in the line-graph given below. (Maximum Marks in each test is 250)

7 Read the given graph carefully and answer the question that follows.



The total marks obtained by Mohit in the Dec-19 test are what percentage of the total marks obtained by him in the Oct-19 test?

A
n
s

- ☐ 1. 108.5%
- ☐ 2. 106.5%
- ☐ 3. 109.5%
- ☒ 4. 107.5%

Question ID : 441009836319
Option 1 ID : 4410093298394
Option 2 ID : 4410093298392
Option 3 ID : 4410093298395
Option 4 ID : 4410093298393

Q A retailer professes to sell his goods at a loss of $16\frac{2}{3}\%$, but uses a 750 gm weight instead of 1 kg. Find his actual loss or gain percentage.

A
n
s

- ☐ 1. Loss of $10\frac{1}{8}\%$
- ☐ 2. Profit of $10\frac{1}{8}\%$
- ☒ 3. Profit of $11\frac{1}{9}\%$
- ☐ 4. Loss of $11\frac{1}{9}\%$

Question ID : 441009836228
Option 1 ID : 4410093298030
Option 2 ID : 4410093298028
Option 3 ID : 4410093298029
Option 4 ID : 4410093298031

Q The average of 13 numbers is 7. If each of these numbers is multiplied by 7, then what will be the new average?

- 1
9
A n s
✓ 1. 49
✗ 2. 14
✗ 3. 7
✗ 4. 13

Question ID : 441009836196
Option 1 ID : 4410093297900
Option 2 ID : 4410093297902
Option 3 ID : 4410093297901
Option 4 ID : 4410093297903

Q X and Y can run 400 metres in 44 seconds and 50 seconds, respectively. How far is Y from the finishing line when X reaches it?

- 2
0
A n s
✗ 1. 24 m
✗ 2. 45 m
✗ 3. 54.5 m
✓ 4. 48 m

Question ID : 441009836355
Option 1 ID : 4410093298536
Option 2 ID : 4410093298537
Option 3 ID : 4410093298539
Option 4 ID : 4410093298538

Section : English Language and Comprehension

Q Select the most appropriate proverb to substitute the underlined segment in the given sentence.

1 Riya already has her whole life mapped out, including who she'll marry and how many kids she'll have, but I told her to not make plans based on events that haven't even happened.

- A n s
✗ 1. not have her cake and eat it too
✗ 2. not judge a book by its cover
✓ 3. not count her chickens before they hatch
✗ 4. not fix it if it's not broken

Question ID : 441009845699
Option 1 ID : 4410093335669
Option 2 ID : 4410093335671
Option 3 ID : 4410093335668
Option 4 ID : 4410093335670

Q Fill in the blank with the correct option given.

1 I was angry what he said.

- 2
A n s
✓ 1. at
✗ 2. on
✗ 3. of
✗ 4. for

Question ID : 441009326859
Option 1 ID : 4410091273800
Option 2 ID : 4410091273801
Option 3 ID : 4410091273802
Option 4 ID : 4410091273803

Q Choose the most appropriate one-word substitute for the highlighted word segment:

Her initial curiosity quickly turned into a **strong feeling of dislike** for the protagonist's arrogant behavior in the novel.

- Answers
- ☒ 1. Antipathy
 - ☐ 2. Wrath
 - ☐ 3. Reverence
 - ☐ 4. Empathy

Question ID : 441009290934
 Option 1 ID : 4410091130609
 Option 2 ID : 4410091130607
 Option 3 ID : 4410091130608
 Option 4 ID : 4410091130610

Q Select the most appropriate synonym of the underlined word.

4 Ava: I can't believe he was so callous towards his friend's suffering.
 Ethan: Yes, he showed no sympathy at all.

- Answers
- ☐ 1. Merciful
 - ☐ 2. Tender
 - ☒ 3. Apathetic
 - ☐ 4. Mindful

Question ID : 44100987868
 Option 1 ID : 441009349398
 Option 2 ID : 441009349397
 Option 3 ID : 441009349399
 Option 4 ID : 441009349400

Q Select the option that can be used as a one-word substitute for the given group of words.

5 The feeling of knowing what is happening in your body, as hunger, thirst, etc.

- Answers
- ☐ 1. Introspection
 - ☐ 2. Interlocution
 - ☐ 3. Interception
 - ☒ 4. Interoception

Question ID : 4410092929
 Option 1 ID : 44100911754
 Option 2 ID : 44100911755
 Option 3 ID : 44100911752
 Option 4 ID : 44100911753

Q Select the INCORRECTLY spelt word.

- 6
- Answers
- ☒ 1. Metaphore
 - ☐ 2. Satire
 - ☐ 3. Paradox
 - ☐ 4. Hyperbole

Question ID : 44100989794
 Option 1 ID : 441009357346
 Option 2 ID : 441009357348
 Option 3 ID : 441009357345
 Option 4 ID : 441009357347

Q Select the most appropriate question tag to fill in the blank.

7 Nobody complained about the new rules, _____?

- Answers
- ☐ 1. did he
 - ☐ 2. didn't they
 - ☒ 3. did they
 - ☐ 4. didn't he

Question ID : 44100993254
 Option 1 ID : 441009370727
 Option 2 ID : 441009370726
 Option 3 ID : 441009370725
 Option 4 ID : 441009370728

Q Select the most appropriate ANTONYM of the underlined word.

8 Mason: The professor's explanation was extremely esoteric, and I struggled to understand it.
 Ella: Yes, it felt like it was meant for experts rather than students.

- Answers
- ☐ 1. Obscure
 - ☐ 2. Mysterious
 - ☐ 3. Cabalistic
 - ☒ 4. Obvious

Question ID : 44100987840
 Option 1 ID : 441009349282
 Option 2 ID : 441009349281
 Option 3 ID : 441009349283
 Option 4 ID : 441009349284

Q Select the most appropriate adjective to fill in the blank.

9 To complete the _____ picture, the storm commenced.

- Answers
- ☐ 1. enticing
 - ☐ 2. happy
 - ☒ 3. dismal
 - ☐ 4. gruesome

Question ID : 44100922778
 Option 1 ID : 44100990842
 Option 2 ID : 44100990839
 Option 3 ID : 44100990840
 Option 4 ID : 44100990841

Q Fill in the blanks with the correct option given.

10 My sister is afraid dogs.

- Answers
- ☐ 1. for
 - ☐ 2. to
 - ☒ 3. of
 - ☐ 4. at

Question ID : 441009326848
 Option 1 ID : 4410091273763
 Option 2 ID : 4410091273760
 Option 3 ID : 4410091273762
 Option 4 ID : 4410091273761

Q Select the most appropriate question tag to fill in the blank.

1 I am hardly ever late to meetings, _____?

- Answers
- ☒ 1. do I
 - ☒ 2. am I
 - ☒ 3. don't I
 - ☒ 4. aren't I

Question ID : 44100993275
 Option 1 ID : 441009370809
 Option 2 ID : 441009370812
 Option 3 ID : 441009370811
 Option 4 ID : 441009370810

Q Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- 1
- 2 A. Radio and especially television have taken over many of the functions once served by print, just as photography has taken over functions once served by painting and other graphic arts.
 B. The ability of radio to give us information while we are engaged in doing other things is remarkable, and a great saving of time.
 C. Admittedly, television serves some of these functions extremely well; the visual communication of news events, for example, has an enormous impact.
 D. There is some feeling nowadays that reading is not as necessary as it once was.
 E. But it may be seriously questioned whether the advent of modern communications media has much enhanced our understanding of the world in which we live.

- Answers
- ☒ 1. DACBE
 - ☒ 2. DCAEB
 - ☒ 3. BEDAC
 - ☒ 4. CADEB

Question ID : 441009837882
 Option 1 ID : 4410093304621
 Option 2 ID : 4410093304623
 Option 3 ID : 4410093304622
 Option 4 ID : 4410093304620

Q Choose the most appropriate one-word substitute for the highlighted word segment:

- 1 Many classic fables, like those of Aesop, are excellent examples of a(an) story that intends to teach a basic truth or moral about life.

- Answers
- ☒ 1. Allegory
 - ☒ 2. Epic
 - ☒ 3. Anecdote
 - ☒ 4. Ballad

Question ID : 441009290936
 Option 1 ID : 4410091130616
 Option 2 ID : 4410091130615
 Option 3 ID : 4410091130618
 Option 4 ID : 4410091130617

Q Select the wrongly spelt word from the options given below:

- 1
- 4
- Answers
- ☒ 1. Indispensable
 - ☒ 2. Exaggerate
 - ☒ 3. Guarantee
 - ☒ 4. Accomodate

Question ID : 441009298312
 Option 1 ID : 4410091160329
 Option 2 ID : 4410091160327
 Option 3 ID : 4410091160328
 Option 4 ID : 4410091160326

Q Select the most appropriate option to substitute the underlined segment.

1 She was a strange person at the party.

5

A ☒ 1. queer fish

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☐ 2. Tom Dick and Harry

☐ 3. live wire

☐ 4. life and soul

Question ID : 441009845711

Option 1 ID : 4410093335718

Option 2 ID : 4410093335719

Option 3 ID : 4410093335716

Option 4 ID : 4410093335717

Comprehension:

Read the given passage carefully and answer the questions that follow.

Throughout history, consciousness has remained an enigmatic phenomenon, resisting comprehensive scientific and philosophical explanations. While neuroscience attempts to map consciousness to neural activity, philosophers argue that subjective experience—often referred to as the hard problem of consciousness—cannot be entirely reduced to physical processes. This dilemma has given rise to various theories, each attempting to decipher the nature of awareness. One school of thought, physicalism, asserts that consciousness emerges solely from brain activity and can eventually be explained through neurobiological mechanisms. Functionalism extends this view, positing that mental states are defined by their function rather than their physical composition, allowing for the possibility of artificial intelligence achieving consciousness. Conversely, dualism suggests a fundamental separation between mind and matter, with thinkers like Descartes proposing that consciousness exists independently of the physical brain. More radical theories, such as panpsychism, argue that consciousness is a fundamental property of the universe, present in all matter at varying degrees. Recent advancements in cognitive science propose integrated theories, such as the Global Workspace Theory (GWT), which suggests that consciousness arises from the brain integrating and broadcasting information across different neural networks. Meanwhile, the Integrated Information Theory (IIT) attempts to quantify consciousness by measuring a system's ability to integrate information. Despite these advancements, a fundamental question persists: Is consciousness an emergent property of complex computation, or does it transcend physical explanation? The search for answers continues to challenge the boundaries of science and philosophy. As interdisciplinary research deepens, the mystery of consciousness continues to inspire both awe and debate. Perhaps unlocking its secrets will require not just scientific innovation, but a paradigm shift in how we perceive reality itself.

SubQuestion No : 16

Q Which of the following statements is a fact mentioned in the passage?

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A ☒ 1. Integrated Information Theory attempts to quantify consciousness.

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☐ 2. Physicalism argues that consciousness is non-material in nature.

☐ 3. Dualism suggests that the brain creates consciousness through computation.

☐ 4. Consciousness has been fully explained by neuroscience.

Question ID : 441009102515

Option 1 ID : 441009408087

Option 2 ID : 441009408089

Option 3 ID : 441009408090

Option 4 ID : 441009408088

Comprehension:

Read the given passage carefully and answer the questions that follow.

Throughout history, consciousness has remained an enigmatic phenomenon, resisting comprehensive scientific and philosophical explanations. While neuroscience attempts to map consciousness to neural activity, philosophers argue that subjective experience—often referred to as the hard problem of consciousness—cannot be entirely reduced to physical processes. This dilemma has given rise to various theories, each attempting to decipher the nature of awareness. One school of thought, physicalism, asserts that consciousness emerges solely from brain activity and can eventually be explained through neurobiological mechanisms. Functionalism extends this view, positing that mental states are defined by their function rather than their physical composition, allowing for the possibility of artificial intelligence achieving consciousness. Conversely, dualism suggests a fundamental separation between mind and matter, with thinkers like Descartes proposing that consciousness exists independently of the physical brain. More radical theories, such as panpsychism, argue that consciousness is a fundamental property of the universe, present in all matter at varying degrees. Recent advancements in cognitive science propose integrated theories, such as the Global Workspace Theory (GWT), which suggests that consciousness arises from the brain integrating and broadcasting information across different neural networks. Meanwhile, the Integrated Information Theory (IIT) attempts to quantify consciousness by measuring a system's ability to integrate information. Despite these advancements, a fundamental question persists: Is consciousness an emergent property of complex computation, or does it transcend physical explanation? The search for answers continues to challenge the boundaries of science and philosophy. As interdisciplinary research deepens, the mystery of consciousness continues to inspire both awe and debate. Perhaps unlocking its secrets will require not just scientific innovation, but a paradigm shift in how we perceive reality itself.

SubQuestion No : 17

Q Select the most appropriate title for the passage.

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- ☒ 1. The role of artificial intelligence in mimicking human cognition
- ☒ 2. The ongoing debate about the nature and origins of consciousness
- ☒ 3. The history of neuroscience and its contributions to psychology
- ☒ 4. The relationship between perception and physical reality

Question ID : 441009102512
Option 1 ID : 441009408076
Option 2 ID : 441009408075
Option 3 ID : 441009408077
Option 4 ID : 441009408078

Comprehension:

Read the given passage carefully and answer the questions that follow.

Throughout history, consciousness has remained an enigmatic phenomenon, resisting comprehensive scientific and philosophical explanations. While neuroscience attempts to map consciousness to neural activity, philosophers argue that subjective experience—often referred to as the hard problem of consciousness—cannot be entirely reduced to physical processes. This dilemma has given rise to various theories, each attempting to decipher the nature of awareness. One school of thought, physicalism, asserts that consciousness emerges solely from brain activity and can eventually be explained through neurobiological mechanisms. Functionalism extends this view, positing that mental states are defined by their function rather than their physical composition, allowing for the possibility of artificial intelligence achieving consciousness. Conversely, dualism suggests a fundamental separation between mind and matter, with thinkers like Descartes proposing that consciousness exists independently of the physical brain. More radical theories, such as panpsychism, argue that consciousness is a fundamental property of the universe, present in all matter at varying degrees. Recent advancements in cognitive science propose integrated theories, such as the Global Workspace Theory (GWT), which suggests that consciousness arises from the brain integrating and broadcasting information across different neural networks. Meanwhile, the Integrated Information Theory (IIT) attempts to quantify consciousness by measuring a system's ability to integrate information. Despite these advancements, a fundamental question persists: Is consciousness an emergent property of complex computation, or does it transcend physical explanation? The search for answers continues to challenge the boundaries of science and philosophy. As interdisciplinary research deepens, the mystery of consciousness continues to inspire both awe and debate. Perhaps unlocking its secrets will require not just scientific innovation, but a paradigm shift in how we perceive reality itself.

SubQuestion No : 18

Q What is the hard problem of consciousness as mentioned in the passage?

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- ☒ 1. The relationship between memory and perception in cognition
- ☒ 2. The difficulty of explaining subjective experience through physical processes
- ☒ 3. The inability of artificial intelligence to mimic human thought
- ☒ 4. The challenge of mapping brain activity using neuroscience

Question ID : 441009102513
Option 1 ID : 441009408082
Option 2 ID : 441009408079
Option 3 ID : 441009408081
Option 4 ID : 441009408080

Comprehension:

Read the given passage carefully and answer the questions that follow.

Throughout history, consciousness has remained an enigmatic phenomenon, resisting comprehensive scientific and philosophical explanations. While neuroscience attempts to map consciousness to neural activity, philosophers argue that subjective experience—often referred to as the hard problem of consciousness—cannot be entirely reduced to physical processes. This dilemma has given rise to various theories, each attempting to decipher the nature of awareness. One school of thought, physicalism, asserts that consciousness emerges solely from brain activity and can eventually be explained through neurobiological mechanisms. Functionalism extends this view, positing that mental states are defined by their function rather than their physical composition, allowing for the possibility of artificial intelligence achieving consciousness. Conversely, dualism suggests a fundamental separation between mind and matter, with thinkers like Descartes proposing that consciousness exists independently of the physical brain. More radical theories, such as panpsychism, argue that consciousness is a fundamental property of the universe, present in all matter at varying degrees. Recent advancements in cognitive science propose integrated theories, such as the Global Workspace Theory (GWT), which suggests that consciousness arises from the brain integrating and broadcasting information across different neural networks. Meanwhile, the Integrated Information Theory (IIT) attempts to quantify consciousness by measuring a system's ability to integrate information. Despite these advancements, a fundamental question persists: Is consciousness an emergent property of complex computation, or does it transcend physical explanation? The search for answers continues to challenge the boundaries of science and philosophy. As interdisciplinary research deepens, the mystery of consciousness continues to inspire both awe and debate. Perhaps unlocking its secrets will require not just scientific innovation, but a paradigm shift in how we perceive reality itself.

SubQuestion No : 19

Q What is the tone of the passage?

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- ☒ 1. Sarcastic and dismissive
- ☒ 2. Emotional and persuasive
- ☒ 3. Analytical and thought-provoking
- ☒ 4. Lighthearted and humorous

Question ID : 441009102516
Option 1 ID : 441009408092
Option 2 ID : 441009408093
Option 3 ID : 441009408091
Option 4 ID : 441009408094

Comprehension:

Read the given passage carefully and answer the questions that follow.

Throughout history, consciousness has remained an enigmatic phenomenon, resisting comprehensive scientific and philosophical explanations. While neuroscience attempts to map consciousness to neural activity, philosophers argue that subjective experience—often referred to as the hard problem of consciousness—cannot be entirely reduced to physical processes. This dilemma has given rise to various theories, each attempting to decipher the nature of awareness. One school of thought, physicalism, asserts that consciousness emerges solely from brain activity and can eventually be explained through neurobiological mechanisms. Functionalism extends this view, positing that mental states are defined by their function rather than their physical composition, allowing for the possibility of artificial intelligence achieving consciousness. Conversely, dualism suggests a fundamental separation between mind and matter, with thinkers like Descartes proposing that consciousness exists independently of the physical brain. More radical theories, such as panpsychism, argue that consciousness is a fundamental property of the universe, present in all matter at varying degrees. Recent advancements in cognitive science propose integrated theories, such as the Global Workspace Theory (GWT), which suggests that consciousness arises from the brain integrating and broadcasting information across different neural networks. Meanwhile, the Integrated Information Theory (IIT) attempts to quantify consciousness by measuring a system's ability to integrate information. Despite these advancements, a fundamental question persists: Is consciousness an emergent property of complex computation, or does it transcend physical explanation? The search for answers continues to challenge the boundaries of science and philosophy. As interdisciplinary research deepens, the mystery of consciousness continues to inspire both awe and debate. Perhaps unlocking its secrets will require not just scientific innovation, but a paradigm shift in how we perceive reality itself.

SubQuestion No : 20

Q Which inference can be drawn from the passage?

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- ☒ 1. Theories on consciousness remain speculative and unresolved.
- ☒ 2. Neuroscience has completely explained subjective experience.
- ☒ 3. Artificial intelligence has already achieved consciousness.
- ☒ 4. Panpsychism is the most widely accepted theory of consciousness.

Question ID : 441009102514
Option 1 ID : 441009408083
Option 2 ID : 441009408085
Option 3 ID : 441009408084
Option 4 ID : 441009408086

Section : Hindi Language and Comprehension

Q निम्नलिखित वाक्य को कारक द्वारा पूर्ण करें।
सीमा _____ साइकिल चलायी थी।

- 1
A
n
s
X 1. को
X 2. से
✓ 3. ने
X 4. पर

Question ID : 441009837139
Option 1 ID : 4410093301677
Option 2 ID : 4410093301679
Option 3 ID : 4410093301676
Option 4 ID : 4410093301678

Q राधा _____ बन गई।

- 2
A
n
s
X 1. स्त्री
X 2. सखी
✓ 3. कृष्ण
X 4. लड़की

Question ID : 441009837261
Option 1 ID : 4410093302165
Option 2 ID : 4410093302166
Option 3 ID : 4410093302167
Option 4 ID : 4410093302164

Q वर्तनी की दृष्टि से दिए गए वाक्य के किस अंश में त्रुटि है ?
फिटकरी से त्वच संबंधी अनेक रोगों में आराम पाया जा सकता है।

- 3
A
n
s
X 1. जा सकता है।
X 2. में आराम पाया
✓ 3. फिटकरी से त्वच
X 4. संबंधी अनेक रोगों

Question ID : 441009843884
Option 1 ID : 4410093328407
Option 2 ID : 4410093328406
Option 3 ID : 4410093328404
Option 4 ID : 4410093328405

Q 'बच्चों _____ प्रतिदिन _____ करना चाहिए।' निम्नलिखित अपूर्ण वाक्य को पूर्ण कीजिए-

- 4
A
n
s
X 1. बच्चों से प्रतिदिन काम लेना चाहिए
✓ 2. बच्चों को प्रतिदिन व्यायाम करना चाहिए
X 3. बच्चों को व्यायाम करना चाहिए
X 4. बच्चों से प्रतिदिन ध्यान करना चाहिए

Question ID : 441009837253
Option 1 ID : 4410093302132
Option 2 ID : 4410093302133
Option 3 ID : 4410093302135
Option 4 ID : 4410093302134

Q धूप निकल गई। - रिक्त स्थान के लिए उचित क्रिया-विशेषण का चयन कीजिए-

5
A
n
s

- ✓ 1. अचानक
✗ 2. सर्वथा
✗ 3. बड़ा
✗ 4. बढ़कर

Question ID : 441009837259
Option 1 ID : 4410093302156
Option 2 ID : 4410093302158
Option 3 ID : 4410093302159
Option 4 ID : 4410093302157

Q 'साँच को आँच नहीं' मुहावरे का उपयुक्त अर्थ क्या है?

6
A
n
s

- ✗ 1. कलाई खुलना।
✓ 2. सच्चे को डरने की आवश्यकता नहीं।
✗ 3. उचित न्याय करना।
✗ 4. कोई सिद्धांत नहीं।

Question ID : 441009843964
Option 1 ID : 4410093328724
Option 2 ID : 4410093328725
Option 3 ID : 4410093328727
Option 4 ID : 4410093328726

Q मोषक रात में निकलता है।
वाक्य का रेखांकित शब्द किसका पर्यायवाची है ?

7
A
n
s

- ✗ 1. चूहा
✓ 2. चोर
✗ 3. चाँद
✗ 4. उल्लू

Question ID : 441009843837
Option 1 ID : 4410093328216
Option 2 ID : 4410093328218
Option 3 ID : 4410093328219
Option 4 ID : 4410093328217

Q 'घरवालों से उदासीन और निकम्मे व्यक्ति के घर रहने या न रहने से कोई अंतर नहीं पड़ता' -इस अर्थ के लिए उचित कहावत का चयन कीजिए-

8
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n
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- ✗ 1. जहाँ जाए भूखा, वहीं पड़े सूखा
✗ 2. जैसे मियाँ काठ, वैसी सन की दाढ़ी
✓ 3. जैसे कन्ता घर रहे, तैसे रहे विदेश
✗ 4. जो अपने काम न आए, सो चूल्हेभाड़ में जाए

Question ID : 441009843993
Option 1 ID : 4410093328840
Option 2 ID : 4410093328841
Option 3 ID : 4410093328842
Option 4 ID : 4410093328843

Q तुम्हारे लोचन बहुत सुन्दर हैं।
वाक्य का रेखांकित शब्द किसका पर्यायवाची है ?

- Answers
- ✓ 1. नेत्र
 - ✗ 2. कान
 - ✗ 3. हाथ
 - ✗ 4. गाल

Question ID : 441009843844
Option 1 ID : 4410093328247
Option 2 ID : 4410093328245
Option 3 ID : 4410093328246
Option 4 ID : 4410093328244

Q 'जो युद्ध में स्थिर रहता है' वाक्यांश के लिए उपयुक्त शब्द होगा-

- Answers
- ✗ 1. जिगीषु
 - ✗ 2. उच्छिष्ट
 - ✗ 3. युयुत्सु
 - ✓ 4. युधिष्ठिर

Question ID : 441009842129
Option 1 ID : 4410093321586
Option 2 ID : 4410093321587
Option 3 ID : 4410093321584
Option 4 ID : 4410093321585

Q 'जो नष्ट होने वाला हो' वाक्यांश के लिए उपयुक्त शब्द होगा-

- Answers
- ✗ 1. अविनाशी
 - ✗ 2. शाश्वत
 - ✗ 3. निःस्पृह
 - ✓ 4. नश्वर

Question ID : 441009842131
Option 1 ID : 4410093321594
Option 2 ID : 4410093321592
Option 3 ID : 4410093321595
Option 4 ID : 4410093321593

Q "सुष्मिता को चोट लगने के बाद तत्कालिक उपचार के लिए ले जाया गया।" वाक्य में अशुद्ध भाग का चयन कीजिए।

- Answers
- ✗ 1. सुष्मिता को चोट
 - ✗ 2. लगने के बाद
 - ✓ 3. तत्कालिक उपचार
 - ✗ 4. ले जाया गया।

Question ID : 441009843946
Option 1 ID : 4410093328652
Option 2 ID : 4410093328653
Option 3 ID : 4410093328654
Option 4 ID : 4410093328655

Q वाक्य क्रम में लिखिए-

· बेटे को अफीम (अ/पुश्तैनी घर से निकली थी/ब/सुरजीत कौर अपने मासूम (स/चटाकर मुल्तान के अपने/द।

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✗ 1. स ब अ द

✗ 2. द ब स अ

✓ 3. स अ द ब

✗ 4. अ ब स द

Question ID : 441009842030
Option 1 ID : 4410093321190
Option 2 ID : 4410093321189
Option 3 ID : 4410093321191
Option 4 ID : 4410093321188

Q निम्नलिखित वाक्य को कारक द्वारा पूर्ण करें।

· _____ मैं भी कितनी बुद्धू हूँ, जो किताब लेना भूल गई।

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✗ 1. क्या

✗ 2. कहीं

✓ 3. ओह!

✗ 4. अब

Question ID : 441009837141
Option 1 ID : 4410093301686
Option 2 ID : 4410093301687
Option 3 ID : 4410093301684
Option 4 ID : 4410093301685

Q वाक्य क्रम में लिखिए-

· मौजूद सभी लोगों(अ/की ओर देखा/ब/ने परेशानी से दस्तकों(स/अदालत/द।

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✗ 1. अ ब स द

✗ 2. स ब अ द

✗ 3. ब स अ द

✓ 4. द अ स ब

Question ID : 441009842032
Option 1 ID : 4410093321198
Option 2 ID : 4410093321196
Option 3 ID : 4410093321199
Option 4 ID : 4410093321197

Comprehension:

गद्यांश के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए।

हमारे भारत का हर त्यौहार और उत्सव सिर्फ मौज-मस्ती नहीं, अपितु सांस्कृतिक, सामाजिक और वैज्ञानिक आधारों की कसौटी पर खरा उतरता है। हम खेतीहर संस्कृति वाले भारतवासी आज भी विजयदशमी पर नए जो के अंकुर अपने मस्तक पर धारण करते हैं और उसे जय का प्रतीक मानते हैं। आने वाली नई फसल के अंकुर से हम अपनी विजय यात्रा का आरंभ करते हैं। विजयदशमी के दिन लोग नीलकंठ पक्षी के दर्शन करना चाहते हैं, इससे हम विषपायी शिव का दर्शन करते हैं। आदमी जब विजय के लिए निकलता है तो उसे अपयश, असफलता, संघर्ष और लोकनिंदा का गरल पीकर ही अपने को विजय लक्ष्य तक पहुंचना होता है।

दीपावली पर अमावस की रात सबसे गहरी होती है। पावस के चार महीनों का सारा तमस असंख्य कीट-पतंग बनकर छोटे-छोटे दीयों के प्रकाश में जल जाता है। यह प्रतीक है कि आत्मा के तेज और सात्विकता में जलकर तमस का विनाश अवश्य होगा। पूर्वी भारत में यह कालीपूजा के रूप में मनाया जाता है। काली मोह और मद को जड़ से नाश करने वाली शक्ति है। इसी दिन व्यापारी नए-नए बहीखाते पूजते हैं। दिए अपनी रोशनी से बताते हैं कि अंधकार का कोई आधार नहीं होता यदि है तो प्रकाश उसे दूर करने का आह्वान करता है।

SubQuestion No : 16

Q गद्यांश में प्रयुक्त 'जय' का विलोम शब्द होगा -

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- ☒ 1. जातीय
 - ☒ 2. थल
 - ☒ 3. पराजय
 - ☒ 4. विजाति

Question ID : 441009843260
Option 1 ID : 4410093325957
Option 2 ID : 4410093325956
Option 3 ID : 4410093325958
Option 4 ID : 4410093325959

Comprehension:

गद्यांश के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए।

हमारे भारत का हर त्यौहार और उत्सव सिर्फ मौज-मस्ती नहीं, अपितु सांस्कृतिक, सामाजिक और वैज्ञानिक आधारों की कसौटी पर खरा उतरता है। हम खेतीहर संस्कृति वाले भारतवासी आज भी विजयदशमी पर नए जो के अंकुर अपने मस्तक पर धारण करते हैं और उसे जय का प्रतीक मानते हैं। आने वाली नई फसल के अंकुर से हम अपनी विजय यात्रा का आरंभ करते हैं। विजयदशमी के दिन लोग नीलकंठ पक्षी के दर्शन करना चाहते हैं, इससे हम विषपायी शिव का दर्शन करते हैं। आदमी जब विजय के लिए निकलता है तो उसे अपयश, असफलता, संघर्ष और लोकनिंदा का गरल पीकर ही अपने को विजय लक्ष्य तक पहुंचना होता है।

दीपावली पर अमावस की रात सबसे गहरी होती है। पावस के चार महीनों का सारा तमस असंख्य कीट-पतंग बनकर छोटे-छोटे दीयों के प्रकाश में जल जाता है। यह प्रतीक है कि आत्मा के तेज और सात्विकता में जलकर तमस का विनाश अवश्य होगा। पूर्वी भारत में यह कालीपूजा के रूप में मनाया जाता है। काली मोह और मद को जड़ से नाश करने वाली शक्ति है। इसी दिन व्यापारी नए-नए बहीखाते पूजते हैं। दिए अपनी रोशनी से बताते हैं कि अंधकार का कोई आधार नहीं होता यदि है तो प्रकाश उसे दूर करने का आह्वान करता है।

SubQuestion No : 17

Q गद्यांश में प्रयुक्त 'तमस' का पर्यायवाची शब्द होगा -

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- ☒ 1. तिमिर
 - ☒ 2. सुरदास
 - ☒ 3. लुप्त
 - ☒ 4. अंधेर

Question ID : 441009843258
Option 1 ID : 4410093325950
Option 2 ID : 4410093325949
Option 3 ID : 4410093325948
Option 4 ID : 4410093325951

Comprehension:

गद्यांश के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए।

हमारे भारत का हर त्यौहार और उत्सव सिर्फ मौज-मस्ती नहीं, अपितु सांस्कृतिक, सामाजिक और वैज्ञानिक आधारों की कसौटी पर खरा उतरता है। हम खेतीहर संस्कृति वाले भारतवासी आज भी विजयदशमी पर नए जो के अंकुर अपने मस्तक पर धारण करते हैं और उसे जय का प्रतीक मानते हैं। आने वाली नई फसल के अंकुर से हम अपनी विजय यात्रा का आरंभ करते हैं। विजयदशमी के दिन लोग नीलकंठ पक्षी के दर्शन करना चाहते हैं, इससे हम विषपायी शिव का दर्शन करते हैं। आदमी जब विजय के लिए निकलता है तो उसे अपयश, असफलता, संघर्ष और लोकनिंदा का गरल पीकर ही अपने को विजय लक्ष्य तक पहुंचना होता है।

दीपावली पर अमावस की रात सबसे गहरी होती है। पावस के चार महीनों का सारा तमस असंख्य कीट-पतंग बनकर छोटे-छोटे दीयों के प्रकाश में जल जाता है। यह प्रतीक है कि आत्मा के तेज और सात्विकता में जलकर तमस का विनाश अवश्य होगा। पूर्वी भारत में यह कालीपूजा के रूप में मनाया जाता है। काली मोह और मद को जड़ से नाश करने वाली शक्ति है। इसी दिन व्यापारी नए-नए बहीखाते पूजते हैं। दिए अपनी रोशनी से बताते हैं कि अंधकार का कोई आधार नहीं होता यदि है तो प्रकाश उसे दूर करने का आह्वान करता है।

SubQuestion No : 18

Q विजयदशमी पर धारण किया जाने वाला अंकुरित जौ किसका प्रतीक होता है ?

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✗ 1. फसल का

✓ 2. जय का

✗ 3. सात्विकता का

✗ 4. शक्ति प्रदर्शन का

Question ID : 441009843256

Option 1 ID : 4410093325942

Option 2 ID : 4410093325941

Option 3 ID : 4410093325943

Option 4 ID : 4410093325940

Comprehension:

गद्यांश के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए।

हमारे भारत का हर त्यौहार और उत्सव सिर्फ मौज-मस्ती नहीं, अपितु सांस्कृतिक, सामाजिक और वैज्ञानिक आधारों की कसौटी पर खरा उतरता है। हम खेतीहर संस्कृति वाले भारतवासी आज भी विजयदशमी पर नए जो के अंकुर अपने मस्तक पर धारण करते हैं और उसे जय का प्रतीक मानते हैं। आने वाली नई फसल के अंकुर से हम अपनी विजय यात्रा का आरंभ करते हैं। विजयदशमी के दिन लोग नीलकंठ पक्षी के दर्शन करना चाहते हैं, इससे हम विषपायी शिव का दर्शन करते हैं। आदमी जब विजय के लिए निकलता है तो उसे अपयश, असफलता, संघर्ष और लोकनिंदा का गरल पीकर ही अपने को विजय लक्ष्य तक पहुंचना होता है।

दीपावली पर अमावस की रात सबसे गहरी होती है। पावस के चार महीनों का सारा तमस असंख्य कीट-पतंग बनकर छोटे-छोटे दीयों के प्रकाश में जल जाता है। यह प्रतीक है कि आत्मा के तेज और सात्विकता में जलकर तमस का विनाश अवश्य होगा। पूर्वी भारत में यह कालीपूजा के रूप में मनाया जाता है। काली मोह और मद को जड़ से नाश करने वाली शक्ति है। इसी दिन व्यापारी नए-नए बहीखाते पूजते हैं। दिए अपनी रोशनी से बताते हैं कि अंधकार का कोई आधार नहीं होता यदि है तो प्रकाश उसे दूर करने का आह्वान करता है।

SubQuestion No : 19

Q नीलकंठ को जोड़ा जाता है ?

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✓ 1. शिव के दर्शन से

✗ 2. कृष्ण के दर्शन से

✗ 3. पक्षी के दर्शन से

✗ 4. राम के दर्शन से

Question ID : 441009843257

Option 1 ID : 4410093325944

Option 2 ID : 4410093325945

Option 3 ID : 4410093325946

Option 4 ID : 4410093325947

Comprehension:

गद्यांश के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए।

हमारे भारत का हर त्योहार और उत्सव सिर्फ मोज-मस्ती नहीं, अपितु सांस्कृतिक, सामाजिक और वैज्ञानिक आधारों की कसौटी पर खरा उतरता है। हम खेतीहर संस्कृति वाले भारतवासी आज भी विजयदशमी पर नए जो के अंकुर अपने मस्तक पर धारण करते हैं और उसे जय का प्रतीक मानते हैं। आने वाली नई फसल के अंकुर से हम अपनी विजय यात्रा का आरंभ करते हैं। विजयदशमी के दिन लोग नीलकंठ पक्षी के दर्शन करना चाहते हैं, इससे हम विषपायी शिव का दर्शन करते हैं। आदमी जब विजय के लिए निकलता है तो उसे अपयश, असफलता, संघर्ष और लोकनिंदा का गरल पीकर ही अपने को विजय लक्ष्य तक पहुंचना होता है।

दीपावली पर अमावस की रात सबसे गहरी होती है। पावस के चार महीनों का सारा तमस असंख्य कीट-पतंग बनकर छोटे-छोटे दीयों के प्रकाश में जल जाता है। यह प्रतीक है कि आत्मा के तेज और सात्विकता में जलकर तमस का विनाश अवश्य होगा। पूर्वी भारत में यह कालीपूजा के रूप में मनाया जाता है। काली मोह और मद को जड़ से नाश करने वाली शक्ति है। इसी दिन व्यापारी नए-नए बहीखाते पूजते हैं। दिए अपनी रोशनी से बताते हैं कि अंधकार का कोई आधार नहीं होता यदि है तो प्रकाश उसे दूर करने का आह्वान करता है।

SubQuestion No : 20

Q उपर्युक्त गद्यांश का उचित शीर्षक होगा-

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- ☒ 1. एकता का महत्त्व
- ☒ 2. त्योहारों का महत्त्व
- ☒ 3. संस्कारों का महत्त्व
- ☒ 4. प्रकाश का महत्त्व

Question ID : 441009843259
Option 1 ID : 4410093325953
Option 2 ID : 4410093325952
Option 3 ID : 4410093325955
Option 4 ID : 4410093325954

Section : Discipline1

Q Identify the member from the given options that belongs to the plant group, grows in relatively cold conditions and has exposed ovules, both before and after fertilisation.

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- ☒ 1. Polytrichum
- ☒ 2. Sequoia
- ☒ 3. Selaginella
- ☒ 4. Equisetum

Question ID : 441009651277
Option 1 ID : 4410092559368
Option 2 ID : 4410092559366
Option 3 ID : 4410092559365
Option 4 ID : 4410092559367

Q In most of the angiosperms, during the development of the seed, nucellar tissue outside the embryo sac:

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- ☒ 1. Is completely utilised
- ☒ 2. Does not change
- ☒ 3. Forms an outgrowth
- ☒ 4. Contributes part of tiny future plant

Question ID : 441009651093
Option 1 ID : 4410092558631
Option 2 ID : 4410092558629
Option 3 ID : 4410092558630
Option 4 ID : 4410092558632

Q The National Botanical Research Institute is located in _____.

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- ☒ 1. Hyderabad
- ☒ 2. Lucknow
- ☒ 3. Delhi
- ☒ 4. Bangalore

Question ID : 441009651356
Option 1 ID : 4410092559683
Option 2 ID : 4410092559682
Option 3 ID : 4410092559681
Option 4 ID : 4410092559684

Q Which of the following structures is primarily responsible for the locomotion of an earthworm?

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- ☒ 1. Clitellum
- ☒ 2. Crop
- ☒ 3. Nephridia
- ☒ 4. Setae

Question ID : 441009651236
Option 1 ID : 4410092559201
Option 2 ID : 4410092559204
Option 3 ID : 4410092559203
Option 4 ID : 4410092559202

Q Which of the following statements is correct regarding kingdom plantae?

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- ☒ 1. The plant cell has an eukaryotic structure with prominent chloroplast and cell wall mainly made up of chitin.
- ☒ 2. The plant cell has a prokaryotic structure with prominent chloroplast and cell wall mainly made up of chitin.
- ☒ 3. The plant cell has an eukaryotic structure with prominent chloroplast and cell wall mainly made up of cellulose.
- ☒ 4. The plant cell has a prokaryotic structure with prominent chloroplast and cell wall mainly made up of cellulose.

Question ID : 441009651439
Option 1 ID : 4410092560015
Option 2 ID : 4410092560016
Option 3 ID : 4410092560013
Option 4 ID : 4410092560014

Q Which of the following is NOT a characteristic of angiosperms?

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- ☒ 1. Seeds are enclosed in fruits
- ☒ 2. Divided into two classes: the dicotyledons and the monocotyledons
- ☒ 3. Ranges in size from the smallest Wolffia to tall trees of Eucalyptus
- ☒ 4. Ovules are naked

Question ID : 441009935089
Option 1 ID : 4410093694073
Option 2 ID : 4410093694074
Option 3 ID : 4410093694075
Option 4 ID : 4410093694076

Q What is the region of the root where cells actively divide called?

.
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- Answers
- ☒ 1. Region of meristematic activity
 - ☐ 2. Region of maturation
 - ☐ 3. Root cap
 - ☐ 4. Region of elongation

Question ID : 441009937918
 Option 1 ID : 4410093705389
 Option 2 ID : 4410093705388
 Option 3 ID : 4410093705390
 Option 4 ID : 4410093705387

Q Which of the following tissues gives rise to the vascular cambium?

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- Answers
- ☒ 1. A portion of pericycle tissues
 - ☐ 2. Phloem
 - ☐ 3. Xylem
 - ☐ 4. Pith

Question ID : 441009651353
 Option 1 ID : 4410092559669
 Option 2 ID : 4410092559672
 Option 3 ID : 4410092559671
 Option 4 ID : 4410092559670

Q Which of the following is NOT a primary basis in the classification of animals?

.
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- Answers
- ☐ 1. Genetic information
 - ☐ 2. Behavioral traits
 - ☒ 3. Habitat preferences
 - ☐ 4. Morphological characteristics

Question ID : 441009651085
 Option 1 ID : 4410092558598
 Option 2 ID : 4410092558600
 Option 3 ID : 4410092558599
 Option 4 ID : 4410092558597

Q Which of the following is correct regarding the Pteridophytes?

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- Answers
- ☒ 1. Pteridophytes are seedless, vascular plants which reproduce by means of spore
 - ☐ 2. Pteridophytes are seeded, non- vascular plants which reproduce by means of spore
 - ☐ 3. Pteridophytes are seedless, non- vascular plants which reproduce by means of spore
 - ☐ 4. Pteridophytes are seeded, vascular plants which reproduce by means of spore

Question ID : 441009651008
 Option 1 ID : 4410092558289
 Option 2 ID : 4410092558292
 Option 3 ID : 4410092558291
 Option 4 ID : 4410092558290

Q Which of the following is an example of gymnosperm?

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- Answers
- ☒ 1. Sphagnum
 - ☒ 2. Adiantum
 - ☒ 3. Pinus
 - ☒ 4. Ectocarpus

Question ID : 441009651358
Option 1 ID : 4410092559690
Option 2 ID : 4410092559689
Option 3 ID : 4410092559692
Option 4 ID : 4410092559691

Q Which of the following is correct regarding the seed?

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- Answers
- ☒ 1. One cotyledon (pea) or two cotyledons (maize)
 - ☒ 2. One cotyledon (maize) or two cotyledons (gram)
 - ☒ 3. One cotyledon (bean) or two cotyledons (pea)
 - ☒ 4. One cotyledon (gram) or two cotyledons (pea)

Question ID : 441009651351
Option 1 ID : 4410092559661
Option 2 ID : 4410092559663
Option 3 ID : 4410092559664
Option 4 ID : 4410092559662

Q Which type of inflorescence is characterised by a fleshy axis bearing flowers, often surrounded by a spathe?

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- Answers
- ☒ 1. Spadix
 - ☒ 2. Spike
 - ☒ 3. Panicle
 - ☒ 4. Catkin

Question ID : 441009951329
Option 1 ID : 4410093758694
Option 2 ID : 4410093758693
Option 3 ID : 4410093758696
Option 4 ID : 4410093758695

Q Which of the following systems in frogs is primarily responsible for gas exchange?

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- Answers
- ☒ 1. Excretory System
 - ☒ 2. Respiratory System
 - ☒ 3. Digestive System
 - ☒ 4. Circulatory System

Question ID : 441009651082
Option 1 ID : 4410092558588
Option 2 ID : 4410092558587
Option 3 ID : 4410092558585
Option 4 ID : 4410092558586

Q Flowering plants have been able to attract many animate objects to help in the the process of their sexual reproduction. One such ability of angiosperms is demonstrated in the process of:

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- ☐ 1. Microsporogenesis
- ☐ 2. Megasporogenesis
- ☒ 3. Pollination
- ☐ 4. Embryogenesis

Question ID : 441009651131
 Option 1 ID : 4410092558781
 Option 2 ID : 4410092558783
 Option 3 ID : 4410092558782
 Option 4 ID : 4410092558784

Q Plants having dominant gametophytic phase in their life cycle and playing an important role in plant succession on bare rocks are:

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- ☐ 1. gymnosperm
- ☐ 2. pteridophytes
- ☐ 3. algae
- ☒ 4. bryophytes

Question ID : 441009651278
 Option 1 ID : 4410092559370
 Option 2 ID : 4410092559369
 Option 3 ID : 4410092559372
 Option 4 ID : 4410092559371

Q While studying the anatomy of a dicot stem, a student finds a layer of cells rich in starch. What is the general name of this layer?

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- ☐ 1. Pericycle
- ☐ 2. Hypodermis
- ☒ 3. Endodermis
- ☐ 4. Epidermis

Question ID : 441009651273
 Option 1 ID : 4410092559349
 Option 2 ID : 4410092559350
 Option 3 ID : 4410092559351
 Option 4 ID : 4410092559352

Q Which of the following types of vascular bundles are present in monocot stem?

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- ☐ 1. Conjoint and open
- ☒ 2. Conjoint and closed
- ☐ 3. Collateral and closed
- ☐ 4. Collateral and open

Question ID : 441009935098
 Option 1 ID : 4410093694106
 Option 2 ID : 4410093694105
 Option 3 ID : 4410093694107
 Option 4 ID : 4410093694108

Q Which among the following is a place of scientific importance, where plants are grown for identification purposes and each plant is labelled indicating its scientific name and family?

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- ☐ 1. Herbarium
- ☐ 2. Nursery
- ☐ 3. Museum
- ☒ 4. Botanical Garden

Question ID : 441009651274
 Option 1 ID : 4410092559356
 Option 2 ID : 4410092559353
 Option 3 ID : 4410092559355
 Option 4 ID : 4410092559354

Q In amphioxus, the under surface of oral hood forms 6-8 pairs of finger-like folds or patches each formed by a ciliated groove bounded by a ciliated ridge. These constitute which of the following body parts?

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- ☐ 1. Hepatic caecum
- ☐ 2. Epipharyngeal groove
- ☒ 3. Muller's organ
- ☐ 4. Endostyle

Question ID : 441009650769
 Option 1 ID : 4410092557335
 Option 2 ID : 4410092557336
 Option 3 ID : 4410092557334
 Option 4 ID : 4410092557333

Section : Discipline2

Q Which of the following scientists suggested that the structure of a substrate may be complementary to that of the active site in the enzyme-substrate complex, but not in the free enzyme?

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- ☐ 1. Leonor Michaelis
- ☐ 2. Maud Menten
- ☒ 3. Daniel Koshland
- ☐ 4. Emil Fischer

Question ID : 441009651433
 Option 1 ID : 4410092559991
 Option 2 ID : 4410092559992
 Option 3 ID : 4410092559990
 Option 4 ID : 4410092559989

Q The primary CO₂ acceptor molecule in C₄ plant is ____.

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- ☒ 1. Phosphoenol pyruvate (PEP)
- ☐ 2. 3-phosphoglyceric acid (PGA)
- ☐ 3. Oxaloacetic acid (OAA)
- ☐ 4. Ribulose-1,5-bisphosphate (RuBP)

Question ID : 441009937721
 Option 1 ID : 4410093704604
 Option 2 ID : 4410093704605
 Option 3 ID : 4410093704603
 Option 4 ID : 4410093704606

Q What is the primary basis for enzyme classification in the International Union of Biochemistry and Molecular Biology (IUBMB) system?

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- Answers
- ☒ 1. Reaction type
 - ☐ 2. Substrate type
 - ☐ 3. Size
 - ☐ 4. Structure

Question ID : 441009650979
 Option 1 ID : 4410092558175
 Option 2 ID : 4410092558176
 Option 3 ID : 4410092558173
 Option 4 ID : 4410092558174

Q The process of releasing carbon dioxide with the utilisation of ATP during high light intensities generally occurs in _____ and is called as _____.

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- Answers
- ☐ 1. CAM plants; photorespiration
 - ☐ 2. C₄ plants; photorespiration
 - ☒ 3. C₃ plants; photorespiration
 - ☐ 4. monocots; respiration

Question ID : 441009651251
 Option 1 ID : 4410092559263
 Option 2 ID : 4410092559261
 Option 3 ID : 4410092559262
 Option 4 ID : 4410092559264

Q The Michaelis-Menten constant (K_m) of an enzyme increases with increasing temperature. What does this suggest about the enzyme's affinity for the substrate?

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- Answers
- ☐ 1. Enzyme-substrate affinity increases
 - ☐ 2. Product formation becomes spontaneous
 - ☒ 3. Enzyme-substrate affinity decreases
 - ☐ 4. Enzyme becomes a better catalyst

Question ID : 441009941514
 Option 1 ID : 4410093719708
 Option 2 ID : 4410093719710
 Option 3 ID : 4410093719709
 Option 4 ID : 4410093719711

Q Which of the following class of enzymes catalyses the removal of groups from substrates by mechanisms other than hydrolysis, often resulting in the formation of double bonds?

6

- Answers
- ☒ 1. Lyases
 - ☐ 2. Ligases
 - ☐ 3. Transferases
 - ☐ 4. Hydrolases

Question ID : 441009945379
 Option 1 ID : 4410093735050
 Option 2 ID : 4410093735053
 Option 3 ID : 4410093735052
 Option 4 ID : 4410093735051

Q In angiosperms, the organ for reception of photoperiodic stimulus is:

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- ☒ 1. Leaves
- ☐ 2. Root apex
- ☐ 3. Inflorescence axis
- ☐ 4. Stem

Question ID : 441009651246
Option 1 ID : 4410092559243
Option 2 ID : 4410092559241
Option 3 ID : 4410092559244
Option 4 ID : 4410092559242

Q Which of the following enzymes is a classical example of competitive inhibition, with succinic acid as its substrate?

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- ☐ 1. Dihydrofolate reductase
- ☐ 2. Acetylcholine esterase
- ☐ 3. Monoamine oxidase
- ☒ 4. Succinate dehydrogenase

Question ID : 441009651430
Option 1 ID : 4410092559977
Option 2 ID : 4410092559978
Option 3 ID : 4410092559979
Option 4 ID : 4410092559980

Q Which type of enzyme structure is characterised by the presence of a prosthetic group or cofactor that is tightly bound to the enzyme?

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- ☐ 1. Isoenzyme
- ☒ 2. Holoenzyme
- ☐ 3. Apoenzyme
- ☐ 4. Zymogen

Question ID : 441009967603
Option 1 ID : 4410093823576
Option 2 ID : 4410093823574
Option 3 ID : 4410093823573
Option 4 ID : 4410093823575

Q If a soil has conditions of permanent wilting point, then the water potential in the soil is:

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- ☐ 1. Very high
- ☐ 2. Is gradually increasing to allow regaining of turgor pressure by plant
- ☒ 3. Less than or equal to osmotic potential of the plant
- ☐ 4. Almost approaching zero

Question ID : 441009651208
Option 1 ID : 4410092559089
Option 2 ID : 4410092559091
Option 3 ID : 4410092559090
Option 4 ID : 4410092559092

Q Which of the following statements is correct regarding abscisic acid?

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☒ 1. Absciscic acid is generally produced by the growing apices of the stems and roots.

☒ 2. Absciscic acid helps to produce new leaves, chloroplasts in leaves, lateral roots growth and adventitious shoot formation.

☒ 3. Absciscic acid stimulates the closure of stomata in the epidermis and increases the tolerance of plants to various kind of stress.

☒ 4. Absciscic acid stimulates the elongation of the axis.

Question ID : 441009651281

Option 1 ID : 4410092559383

Option 2 ID : 4410092559384

Option 3 ID : 4410092559381

Option 4 ID : 4410092559382

Q During photosynthetic electron transport, protons or hydrogen ions that are produced by the splitting of water accumulates in:

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☒ 1. stroma

☒ 2. periplastidial space

☒ 3. lumen of thylakoid

☒ 4. cytoplasm

Question ID : 441009651252

Option 1 ID : 4410092559265

Option 2 ID : 4410092559266

Option 3 ID : 4410092559267

Option 4 ID : 4410092559268

Q How do extreme changes in pH affect biological molecules?

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☒ 1. Enhance enzyme function

☒ 2. Have no effect on enzyme function

☒ 3. Denature the enzyme and decrease activity

☒ 4. Double the enzyme's activity

Question ID : 441009651073

Option 1 ID : 4410092558549

Option 2 ID : 4410092558550

Option 3 ID : 4410092558551

Option 4 ID : 4410092558552

Q Which of the following is correct regarding the respiratory balance sheet?

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☒ 1. During glycolysis total 12 ATP synthesised, 2 used: net gain of ATP=10

☒ 2. During glycolysis total 8 ATP synthesised, 2 used: net gain of ATP=6

☒ 3. During glycolysis total 10 ATP synthesised, 2 used: net gain of ATP=8

☒ 4. During Kreb's cycle total 28ATP synthesised, used nil: net gain of ATP=28

Question ID : 441009651043

Option 1 ID : 4410092558430

Option 2 ID : 4410092558432

Option 3 ID : 4410092558429

Option 4 ID : 4410092558431

Q What is the fate of NADH produced during glycolysis?

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- Answers
- ☐ 1. It is used to generate ATP in the cytosol.
 - ☐ 2. It is used for light reaction.
 - ☐ 3. It conjugates with FADH.
 - ☒ 4. It is converted back to NAD⁺ in the mitochondria during oxidative phosphorylation.

Question ID : 441009977239
Option 1 ID : 4410093861751
Option 2 ID : 4410093861752
Option 3 ID : 4410093861753
Option 4 ID : 4410093861750

Q Which of the following best explains the mechanism of auxin in promoting cell elongation?

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- Answers
- ☐ 1. It activates the phototropin gene expression.
 - ☐ 2. It increases cytokinin levels in the shoot tip.
 - ☒ 3. It stimulates proton (H⁺) pumps, lowering pH in the cell wall region.
 - ☐ 4. It suppresses gibberellin biosynthesis in the apical meristem.

Question ID : 441009943438
Option 1 ID : 4410093727367
Option 2 ID : 4410093727366
Option 3 ID : 4410093727368
Option 4 ID : 4410093727369

Q In the process of photosynthesis, the light-harvesting complex or antenna pigments:

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- Answers
- ☐ 1. are bound to lipids
 - ☐ 2. act as the reaction centre
 - ☒ 3. absorb different wavelengths of light
 - ☐ 4. reduce photosynthesis

Question ID : 441009651265
Option 1 ID : 4410092559320
Option 2 ID : 4410092559318
Option 3 ID : 4410092559317
Option 4 ID : 4410092559319

Q What is the significance of the Michaelis constant (K_m) in enzyme kinetics?

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- Answers
- ☐ 1. It reflects the enzyme's stability.
 - ☐ 2. It indicates the enzyme's specificity for the substrate.
 - ☒ 3. It measures the binding affinity of the substrate to the enzyme.
 - ☐ 4. It determines the maximum rate of reaction.

Question ID : 441009977109
Option 1 ID : 4410093861237
Option 2 ID : 4410093861236
Option 3 ID : 4410093861234
Option 4 ID : 4410093861235

Q Read the given statements and select the correct option.

Statement I: Enzymes are primarily composed of proteins, and their three-dimensional structure is essential for their catalytic activity.

Statement II: The tertiary structure of protein contains the active site.

- Answers
- ☒ 1. Statement I is correct, but Statement II is incorrect.
 - ☒ 2. Statement I is incorrect, but Statement II is correct.
 - ☒ 3. Both Statement I and Statement II are correct.
 - ☒ 4. Both Statement I and Statement II are incorrect.

Question ID : 441009945527
 Option 1 ID : 4410093735640
 Option 2 ID : 4410093735641
 Option 3 ID : 4410093735638
 Option 4 ID : 4410093735639

Q During translocation of sugars through phloem, the entry of water in sieve tube elements at source end is driven by:

Answers

- ☒ 1. active phloem loading
- ☒ 2. active phloem unloading
- ☒ 3. passive phloem loading
- ☒ 4. passive phloem unloading

Question ID : 441009650806
 Option 1 ID : 4410092557482
 Option 2 ID : 4410092557484
 Option 3 ID : 4410092557481
 Option 4 ID : 4410092557483

Section : Discipline3

Q What type of digestive enzyme breaks down carbohydrates?

Answers

- ☒ 1. Amylase
- ☒ 2. Protease
- ☒ 3. Nuclease
- ☒ 4. Lipase

Question ID : 441009651081
 Option 1 ID : 4410092558583
 Option 2 ID : 4410092558582
 Option 3 ID : 4410092558584
 Option 4 ID : 4410092558581

Q Which of the following inhibits ovulation and implantation as well as alters the quality of cervical mucus to retard the entry of sperms?

Answers

- ☒ 1. Cervical cap
- ☒ 2. Condoms
- ☒ 3. Pills
- ☒ 4. Vasectomy

Question ID : 441009650945
 Option 1 ID : 4410092558040
 Option 2 ID : 4410092558039
 Option 3 ID : 4410092558038
 Option 4 ID : 4410092558037

Q The production of seeds without fertilisation is called _____.

3
Answers

- ☒ 1. apomixis
- ☐ 2. dormancy
- ☐ 3. parthenocarpy
- ☐ 4. polyembryony

Question ID : 441009651425
Option 1 ID : 4410092559958
Option 2 ID : 4410092559959
Option 3 ID : 4410092559960
Option 4 ID : 4410092559957

Q Which of the following is correct regarding the fermentation?

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Answers

- ☐ 1. In fermentation only four molecules of ATP are produced
- ☐ 2. It is beneficial to higher plants
- ☐ 3. End products are O₂ and alcohol or other organic acid
- ☒ 4. The substrates are incompletely oxidised in the absence of oxygen

Question ID : 441009651045
Option 1 ID : 4410092558438
Option 2 ID : 4410092558440
Option 3 ID : 4410092558437
Option 4 ID : 4410092558439

Q The rate of blood flow through the entire circulatory system is equal to the rate of blood pumping by the heart, i.e., it is equal to the cardiac output. In the adult human being, this is approximately:

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Answers

- ☐ 1. 20 ml/sec
- ☐ 2. 10 ml/sec
- ☐ 3. 50 ml/sec
- ☒ 4. 100 ml/sec

Question ID : 441009650968
Option 1 ID : 4410092558130
Option 2 ID : 4410092558129
Option 3 ID : 4410092558131
Option 4 ID : 4410092558132

Q Which of the following mainly controls rate and depth of breathing and located dorsally in the superior portion of the pons?

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Answers

- ☐ 1. Dorsal respiratory group
- ☐ 2. Lungs
- ☒ 3. Pneumotaxic center
- ☐ 4. Ventral respiratory group

Question ID : 441009650970
Option 1 ID : 4410092558137
Option 2 ID : 4410092558140
Option 3 ID : 4410092558139
Option 4 ID : 4410092558138

Q Which of the following is the primary reason for performing a kidney transplant in patients with end-stage renal disease?

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Answers

- ☐ 1. To prevent protein loss in urine
- ☐ 2. To enhance erythropoiesis
- ☐ 3. To restore normal blood pressure
- ☒ 4. To eliminate the need for dialysis

Question ID : 441009650794
 Option 1 ID : 4410092557435
 Option 2 ID : 4410092557436
 Option 3 ID : 4410092557434
 Option 4 ID : 4410092557433

Q Which of the following components is the most abundant in human blood?

8

Answers

- ☒ 1. Plasma
- ☐ 2. Platelets
- ☐ 3. Red blood cells
- ☐ 4. White blood cells

Question ID : 441009651214
 Option 1 ID : 4410092559113
 Option 2 ID : 4410092559116
 Option 3 ID : 4410092559114
 Option 4 ID : 4410092559115

Q Which of the following hormones regulate the osmolarity of fluid in late distal tubule and cortical collecting tubules of the kidneys?

9

Answers

- ☐ 1. Insulin
- ☐ 2. Estrogen
- ☒ 3. Anti diuretic hormone
- ☐ 4. Growth hormone

Question ID : 441009650751
 Option 1 ID : 4410092557262
 Option 2 ID : 4410092557264
 Option 3 ID : 4410092557263
 Option 4 ID : 4410092557261

Q Which gland is often referred to as the "master gland" of the endocrine system?

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Answers

- ☒ 1. Pituitary
- ☐ 2. Thyroid
- ☐ 3. Adrenal
- ☐ 4. Pancreas

Question ID : 441009650788
 Option 1 ID : 4410092557410
 Option 2 ID : 4410092557409
 Option 3 ID : 4410092557411
 Option 4 ID : 4410092557412

Q Pulmonary ventilation can be studied by recording the volume movement of air into and out of the lungs, by a method called:

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Answers

- ☐ 1. ammeter
- ☐ 2. dialysis
- ☒ 3. spirometry
- ☐ 4. sphygmomanometer

Question ID : 441009650981
Option 1 ID : 4410092558184
Option 2 ID : 4410092558182
Option 3 ID : 4410092558181
Option 4 ID : 4410092558183

Q Which of the following ions is released by Intra Uterine Devices to suppress sperm motility and the fertilising capacity of sperms?

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Answers

- ☐ 1. Silver ions
- ☐ 2. Carbon ions
- ☒ 3. Copper ions
- ☐ 4. Helium ions

Question ID : 441009650946
Option 1 ID : 4410092558043
Option 2 ID : 4410092558044
Option 3 ID : 4410092558042
Option 4 ID : 4410092558041

Q The suckling action of the newborn at the nipples of the mother sends afferent nerve impulses to the hypothalamus, resulting in the release of oxytocin from which of the following glands?

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Answers

- ☒ 1. Posterior pituitary gland
- ☐ 2. Thyroid gland
- ☐ 3. Pancreas
- ☐ 4. Parathyroid gland

Question ID : 441009650727
Option 1 ID : 4410092557166
Option 2 ID : 4410092557165
Option 3 ID : 4410092557168
Option 4 ID : 4410092557167

Q Which of the following organisms primarily uses a method of excretion that involves the production of ammonia?

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Answers

- ☒ 1. Fish
- ☐ 2. Mammal
- ☐ 3. Bird
- ☐ 4. Human

Question ID : 441009651088
Option 1 ID : 4410092558612
Option 2 ID : 4410092558611
Option 3 ID : 4410092558610
Option 4 ID : 4410092558609

Q What is the primary function of Sertoli cells in the seminiferous tubules of the testes?

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- ☐ 1. Phagocytosis of abnormal sperm cells
- ☒ 2. Support and nourishment of developing sperm cells
- ☐ 3. Production of testosterone
- ☐ 4. Regulation of blood-testis barrier

Question ID : 441009977508
Option 1 ID : 4410093862788
Option 2 ID : 4410093862787
Option 3 ID : 4410093862786
Option 4 ID : 4410093862789

Q Which of the following is a common technique used in laparoscopic surgery to reduce the risk of post-operative infections?

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- ☐ 1. Performing all incisions under direct vision
- ☐ 2. Application of topical antiseptics on the skin
- ☐ 3. Using a high-pressure saline lavage
- ☒ 4. Routine use of prophylactic antibiotics

Question ID : 441009651150
Option 1 ID : 4410092558860
Option 2 ID : 4410092558859
Option 3 ID : 4410092558858
Option 4 ID : 4410092558857

Q What are the blood groups determined by?

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- ☐ 1. The type of haemoglobin present
- ☒ 2. The presence of specific antigens on the surface of RBCs
- ☐ 3. The amount of plasma proteins
- ☐ 4. The number of white blood cells

Question ID : 441009650941
Option 1 ID : 4410092558021
Option 2 ID : 4410092558022
Option 3 ID : 4410092558024
Option 4 ID : 4410092558023

Q In many experiments, it has been shown that mineral absorption by roots occurs in two phases. In the first phase of mineral absorption:

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- ☐ 1. ions are rapidly taken up into the symplast
- ☐ 2. ions are slowly taken up into the apoplastic space
- ☒ 3. ions are rapidly taken up into the outer or free space of the cells
- ☐ 4. ions are slowly taken up into the inner space of the cells

Question ID : 441009651269
Option 1 ID : 4410092559335
Option 2 ID : 4410092559333
Option 3 ID : 4410092559334
Option 4 ID : 4410092559336

Q About 5% of all pregnant women experience a rapid rise in arterial blood pressure to hypertensive levels during the last months of pregnancy. This condition is called:

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- ☒ 1. Preeclampsia
- ☐ 2. Hematospermia
- ☐ 3. Peyronie's disease
- ☐ 4. Varicocele

Question ID : 441009650955
Option 1 ID : 4410092558079
Option 2 ID : 4410092558077
Option 3 ID : 4410092558080
Option 4 ID : 4410092558078

Q Which of the following factors is LEAST likely to influence sexual behavior in adults according to contemporary research?

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- ☒ 1. Biological and genetic factors
- ☐ 2. Cultural and societal norms
- ☐ 3. Economic status and employment
- ☐ 4. Current trends in popular media

Question ID : 441009651166
Option 1 ID : 4410092558922
Option 2 ID : 4410092558921
Option 3 ID : 4410092558923
Option 4 ID : 4410092558924

Section : Discipline4

Q Which of the following are the salient features of genetic code?

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- ☐ 1. The genetic code is triplet, non-universal and degenerate
- ☐ 2. The genetic code is doublet, universal and degenerate
- ☒ 3. The genetic code is triplet, universal and degenerate
- ☐ 4. The genetic code is triplet, universal and generate

Question ID : 441009651410
Option 1 ID : 4410092559898
Option 2 ID : 4410092559897
Option 3 ID : 4410092559900
Option 4 ID : 4410092559899

Q What is the primary function of microRNAs (miRNAs) in post-transcriptional regulation?

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- ☐ 1. To activate transcription of target genes
- ☐ 2. To regulate alternative splicing
- ☐ 3. To degrade mRNA molecules
- ☒ 4. To inhibit translation of target mRNAs

Question ID : 441009977574
Option 1 ID : 4410093863052
Option 2 ID : 4410093863053
Option 3 ID : 4410093863050
Option 4 ID : 4410093863051

Q Which of the following human diseases is NOT governed by simple recessive genes?

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- ☒ 1. Cystic fibrosis
- ☒ 2. Albinism
- ☒ 3. Tay-Sachs disease
- ☒ 4. Huntington's chorea

Question ID : 441009650827
Option 1 ID : 4410092557566
Option 2 ID : 4410092557567
Option 3 ID : 4410092557565
Option 4 ID : 4410092557568

Q When signaling molecule released by a cell affect target cells only in close proximity, it is called as:

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- ☒ 1. paracrine signaling
- ☒ 2. autocrine signaling
- ☒ 3. juxtacrine signaling
- ☒ 4. endocrine signaling

Question ID : 441009650774
Option 1 ID : 4410092557355
Option 2 ID : 4410092557353
Option 3 ID : 4410092557356
Option 4 ID : 4410092557354

Q Consider the following statements about Pedigree analysis and answer the question that follows.

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1. It is a useful tool to study inheritance pattern of a character in organisms which have a long life span.
2. It can absolutely predict the characters of future offsprings.
3. It is useful in case of human beings only because Mendelian Laws are not applicable to human beings.
4. It represents the inheritance of the character in the form of a family tree.

Which of the given statements is/are correct?

- ☒ 1. 1 and 4
- ☒ 2. 1 and 3
- ☒ 3. 2 and 3
- ☒ 4. 3 and 4

Question ID : 441009651195
Option 1 ID : 4410092559038
Option 2 ID : 4410092559037
Option 3 ID : 4410092559040
Option 4 ID : 4410092559039

Q What is the primary force responsible for the formation of galaxies in the universe?

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- ☒ 1. Electromagnetic Force
- ☒ 2. Strong Interaction
- ☒ 3. Gravitational Force
- ☒ 4. Nuclear Force

Question ID : 441009651147
Option 1 ID : 4410092558845
Option 2 ID : 4410092558848
Option 3 ID : 4410092558846
Option 4 ID : 4410092558847

Q Which of the following are examples of analogous structures?

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- ☐ 1. The flipper of a whale and the arm of a human
- ☐ 2. The thorn of a Bougainvillea and the tendril of a Cucurbita
- ☐ 3. The forelimb of a cat and the wing of a bat
- ☒ 4. The wing of a bat and the wing of a butterfly

Question ID : 441009950255
Option 1 ID : 4410093754459
Option 2 ID : 4410093754460
Option 3 ID : 4410093754457
Option 4 ID : 4410093754458

Q The human skin colour is an example of:

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- ☐ 1. Complementary inheritance
- ☐ 2. Epistasis inheritance
- ☐ 3. Supplementary inheritance
- ☒ 4. Polygenic inheritance

Question ID : 441009651421
Option 1 ID : 4410092559942
Option 2 ID : 4410092559944
Option 3 ID : 4410092559943
Option 4 ID : 4410092559941

Q Select the correct option representing degeneracy of the genetic code.

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- ☐ 1. UCU and UCC code for Glycine
- ☒ 2. UUU and UUC code for Phenylalanine
- ☐ 3. UCU and UCC code for Phenylalanine
- ☐ 4. UUU and UUC code for Serine

Question ID : 441009650778
Option 1 ID : 4410092557372
Option 2 ID : 4410092557369
Option 3 ID : 4410092557371
Option 4 ID : 4410092557370

Q Which of the following statements best describes the concept of natural selection as proposed by Charles Darwin?

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- ☐ 1. Natural selection is the process by which species evolve due to random genetic mutations.
- ☒ 2. Natural selection is the mechanism by which organisms with advantageous traits survive and reproduce more successfully than those without such traits.
- ☐ 3. Natural selection is the principle that organisms develop traits during their lifetimes which are then passed on to their offspring.
- ☐ 4. Natural selection is the process by which humans selectively breed plants and animals for desired traits.

Question ID : 441009651148
Option 1 ID : 4410092558851
Option 2 ID : 4410092558850
Option 3 ID : 4410092558852
Option 4 ID : 4410092558849

Q Consider the following statements about quantitative inheritance, and answer the question that follows.

1. Each contributing gene has small and almost equal effect.
2. The effects of each allele are non additive.
3. The quantity of trait is not influenced by environment.
4. There is no interaction among different loci contributing to the value of the trait.

Which of the above statements are correct for quantitative inheritance?

- Answers
- ☒ 1. 1 and 3
 - ☒ 2. 1 and 4
 - ☒ 3. 2 and 3
 - ☒ 4. 3 and 4

Question ID : 441009650793
 Option 1 ID : 4410092557429
 Option 2 ID : 4410092557432
 Option 3 ID : 4410092557430
 Option 4 ID : 4410092557431

Q Which type of sex determination is found in grasshopper?

- Answers
- ☒ 1. ZW type
 - ☒ 2. XY type
 - ☒ 3. XO type
 - ☒ 4. ZO type

Question ID : 441009937934
 Option 1 ID : 4410093705451
 Option 2 ID : 4410093705454
 Option 3 ID : 4410093705453
 Option 4 ID : 4410093705452

Q The pattern of inheritance of the genes found on the homologous part of the X and Y chromosomes is:

- Answers
- ☒ 1. Similar to other autosomal genes
 - ☒ 2. Are expressed exclusively in men
 - ☒ 3. Generation skipping
 - ☒ 4. Gradually degrading

Question ID : 441009651199
 Option 1 ID : 4410092559053
 Option 2 ID : 4410092559054
 Option 3 ID : 4410092559055
 Option 4 ID : 4410092559056

Q In a plant, during gametogenesis, it was found that recombination frequency between two genes, A and B, was always more than 20% and less than 50%. What can be concluded about genes A and B from this finding?

- Answers
- ☒ 1. Genes A and B are completely linked.
 - ☒ 2. Genes A and B are always segregating during gamete formation.
 - ☒ 3. Genes A and B assort independently.
 - ☒ 4. Genes A and B are incompletely linked.

Question ID : 441009650785
 Option 1 ID : 4410092557397
 Option 2 ID : 4410092557400
 Option 3 ID : 4410092557398
 Option 4 ID : 4410092557399

Q A new oral contraceptive 'Saheli' for the females was developed by scientists at ____.

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- Answers
- ☐ 1. King George's Medical University, Lucknow
 - ☐ 2. Indian Institute of Toxicology Research, Lucknow
 - ☐ 3. Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow
 - ☒ 4. Central Drug Research Institute, Lucknow

Question ID : 441009937902
Option 1 ID : 4410093705330
Option 2 ID : 4410093705328
Option 3 ID : 4410093705329
Option 4 ID : 4410093705327

Q Which of the following concepts is most directly associated with Charles Darwin's theory of evolution?

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- Answers
- ☐ 1. Mendelian inheritance
 - ☐ 2. Genetic drift
 - ☐ 3. Punctuated equilibrium
 - ☒ 4. Natural selection

Question ID : 441009650736
Option 1 ID : 4410092557201
Option 2 ID : 4410092557203
Option 3 ID : 4410092557204
Option 4 ID : 4410092557202

Q Which of the following is a key characteristic that differentiates vertebrates from non-vertebrate chordates?

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- Answers
- ☐ 1. Presence of pharyngeal slits
 - ☒ 2. Presence of a backbone (vertebral column)
 - ☐ 3. Presence of a notochord
 - ☐ 4. Presence of a post-anal tail

Question ID : 441009651145
Option 1 ID : 4410092558840
Option 2 ID : 4410092558839
Option 3 ID : 4410092558837
Option 4 ID : 4410092558838

Q Which of the following molecules carries out all the processes of life and has changed the thinking about the origin of life?

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- Answers
- ☐ 1. Lipid
 - ☐ 2. Carbohydrate
 - ☒ 3. RNA
 - ☐ 4. Vitamin

Question ID : 441009651389
Option 1 ID : 4410092559813
Option 2 ID : 4410092559814
Option 3 ID : 4410092559815
Option 4 ID : 4410092559816

Q The doctrine of irreversibility of evolution, which says that a structure once lost in the long course of evolution cannot be regained, was given by whom among the following scientists?

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A ☒ 1. B Rensch

☒ 2. Goldschmidt

☒ 3. Louis Dollo

☒ 4. Mivart

Question ID : 441009650931

Option 1 ID : 4410092557984

Option 2 ID : 4410092557982

Option 3 ID : 4410092557981

Option 4 ID : 4410092557983

Q At puberty, which of the following hormones stimulates the growth of breasts and mammary glands plus the deposition of fat to give the breasts mass?

2

A ☒ 1. Estrogen

☒ 2. Durocrinin

☒ 3. Secretin

☒ 4. Relaxin

Question ID : 441009650949

Option 1 ID : 4410092558053

Option 2 ID : 4410092558056

Option 3 ID : 4410092558055

Option 4 ID : 4410092558054

Section : Discipline5

Q Which of the following scientists was awarded the Nobel Prize for the discovery of the role of NO as a signaling molecule?

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A ☒ 1. Robert F Furchgotat, Louis J Ignarro, Ferid Murad

☒ 2. LW Sharp and Sutton

☒ 3. Thomas R Cech of the University of Colorado, Boulder and Sidney Altman of Yale University

☒ 4. Britten and Davidson

Question ID : 441009650811

Option 1 ID : 4410092557501

Option 2 ID : 4410092557503

Option 3 ID : 4410092557502

Option 4 ID : 4410092557504

Q In which type of metabolic reactions does FAD (flavin adenine dinucleotide) serve as a coenzyme?

2

A ☒ 1. Fat digestion

☒ 2. Redox reactions

☒ 3. Protein metabolism

☒ 4. Carbohydrate metabolism

Question ID : 441009650915

Option 1 ID : 4410092557920

Option 2 ID : 4410092557919

Option 3 ID : 4410092557918

Option 4 ID : 4410092557917

Q Glycolysis is also called _____.

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- ☒ 1. Amphipathic pathway
- ☒ 2. Kreb's cycle
- ☒ 3. EMP pathway
- ☒ 4. Amphibolic pathway

Question ID : 441009965209
Option 1 ID : 4410093814107
Option 2 ID : 4410093814105
Option 3 ID : 4410093814104
Option 4 ID : 4410093814106

Q In DNA fingerprinting using RFLP, which of the following steps is NOT essential?

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- ☒ 1. Amplification of DNA using primers specific to STRs
- ☒ 2. Restriction digestion of genomic DNA
- ☒ 3. Hybridisation with a labeled DNA probe
- ☒ 4. Gel electrophoresis of digested DNA fragments

Question ID : 441009951187
Option 1 ID : 4410093758134
Option 2 ID : 4410093758133
Option 3 ID : 4410093758136
Option 4 ID : 4410093758135

Q What is the primary advantage of using tandem mass spectrometry (MS/MS) in proteomics?

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- ☒ 1. High-throughput analysis of protein expression
- ☒ 2. Identification of protein-protein interactions
- ☒ 3. Accurate quantification of protein abundance
- ☒ 4. Detailed structural analysis of proteins

Question ID : 441009977604
Option 1 ID : 4410093863166
Option 2 ID : 4410093863168
Option 3 ID : 4410093863167
Option 4 ID : 4410093863169

Q In which organisms are polytene chromosomes commonly found?

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- ☒ 1. Humans
- ☒ 2. Bacteria
- ☒ 3. Mice
- ☒ 4. Fruit flies (Drosophila)

Question ID : 441009651059
Option 1 ID : 4410092558493
Option 2 ID : 4410092558495
Option 3 ID : 4410092558496
Option 4 ID : 4410092558494

Q Which of the following is correct regarding the lac operon in E. coli?

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- ✓ 1. Gene lacZ (3510bp) codes for the enzyme beta-galactosidase
- ✗ 2. Gene lacY (3510bp) codes for the enzyme beta-galactosidase
- ✗ 3. Gene lacZ (3510bp) codes for the enzyme permease
- ✗ 4. Gene lacA (3510bp) codes for the enzyme beta-galactosidase

Question ID : 441009650813
Option 1 ID : 4410092557509
Option 2 ID : 4410092557511
Option 3 ID : 4410092557512
Option 4 ID : 4410092557510

Q Which of the following is an amino-acid derivative hormone?

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- ✗ 1. Testosterone
- ✓ 2. Epinephrine
- ✗ 3. Glucagon
- ✗ 4. Thyroid hormone

Question ID : 441009947726
Option 1 ID : 4410093744423
Option 2 ID : 4410093744422
Option 3 ID : 4410093744424
Option 4 ID : 4410093744421

Q Underlying the inner nuclear membrane, a fibrous network of proteins is present that strengthens the structural framework of the nucleus, called as _____.

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- ✓ 1. lamins
- ✗ 2. nuclear pore complex
- ✗ 3. nucleoporins
- ✗ 4. cytoplasmic filament

Question ID : 441009651401
Option 1 ID : 4410092559861
Option 2 ID : 4410092559862
Option 3 ID : 4410092559863
Option 4 ID : 4410092559864

Q Which of the following structures is directly connected to the nuclear envelope?

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- ✗ 1. Lysosomes
- ✗ 2. Golgi apparatus
- ✓ 3. Endoplasmic reticulum
- ✗ 4. Plasma membrane

Question ID : 441009651063
Option 1 ID : 4410092558512
Option 2 ID : 4410092558511
Option 3 ID : 4410092558510
Option 4 ID : 4410092558509

Q Which of the following is a polymer of fructose, and is used for assessing kidney function through measurement of glomerular filtration rate (GFR)?

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Answers

- ☒ 1. Inulin
- ☐ 2. Glycogen
- ☐ 3. Chitin
- ☐ 4. Cellulose

Question ID : 441009651379
Option 1 ID : 4410092559775
Option 2 ID : 4410092559776
Option 3 ID : 4410092559774
Option 4 ID : 4410092559773

Q RNA world hypothesis states that RNA could be the more ancient genetic molecule than DNA. One of the important evidence which supports this hypothesis is:

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Answers

- ☒ 1. RNA is catalytic in nature.
- ☐ 2. RNA is least reactive.
- ☐ 3. RNA has many types.
- ☐ 4. RNA is very stable.

Question ID : 441009651191
Option 1 ID : 4410092559023
Option 2 ID : 4410092559024
Option 3 ID : 4410092559022
Option 4 ID : 4410092559021

Q Which of the following phenomena is most effectively expressed using polytene chromosomes?

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Answers

- ☐ 1. Osmosis
- ☐ 2. Cell signalling
- ☒ 3. Gene expression
- ☐ 4. Protein synthesis

Question ID : 441009650920
Option 1 ID : 4410092557940
Option 2 ID : 4410092557939
Option 3 ID : 4410092557938
Option 4 ID : 4410092557937

Q Among the following, which vitamin prevents the oxidation of LDL, vitamin A, and carotenes?

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Answers

- ☐ 1. Vitamin B12
- ☐ 2. Vitamin D
- ☒ 3. Vitamin E
- ☐ 4. Folic acid (B9)

Question ID : 441009651370
Option 1 ID : 4410092559740
Option 2 ID : 4410092559737
Option 3 ID : 4410092559738
Option 4 ID : 4410092559739

Q Which of the following is the major seed storage protein of pea; it contains 7% lysine but no sulphur-containing amino acid?

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A ☒ 1. CP3-5

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s ☒ 2. Glutelin

☒ 3. Vicilin

☒ 4. Albumin 8

Question ID : 441009650820

Option 1 ID : 4410092557539

Option 2 ID : 4410092557537

Option 3 ID : 4410092557540

Option 4 ID : 4410092557538

Q What is the use of Restriction Fragment Length Polymorphisms (RFLPs)?

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A ☒ 1. Cell Signalling

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s ☒ 2. Pollution Control

☒ 3. Cellular Digestion

☒ 4. Genetic Mapping

Question ID : 441009651393

Option 1 ID : 4410092559830

Option 2 ID : 4410092559831

Option 3 ID : 4410092559832

Option 4 ID : 4410092559829

Q Which of the following is an example of passive transport?

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A ☒ 1. Diffusion

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s ☒ 2. Endocytosis

☒ 3. Active transport

☒ 4. Exocytosis

Question ID : 441009651064

Option 1 ID : 4410092558515

Option 2 ID : 4410092558513

Option 3 ID : 4410092558516

Option 4 ID : 4410092558514

Q Which of the following classes of enzymes catalyzes hydrolysis of ester, ether, peptide, glycosidic, C-C, C-halide or P-N bonds, through nucleophilic attack involving water as a reactant, without requiring cofactors or radical intermediates?

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A ☒ 1. Isomerases

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s ☒ 2. Lyases

☒ 3. Transferases

☒ 4. Hydrolases

Question ID : 441009950959

Option 1 ID : 4410093757236

Option 2 ID : 4410093757235

Option 3 ID : 4410093757234

Option 4 ID : 4410093757233

Q Fat soluble vitamins perform diverse functions; which of the following vitamins has a specific coenzyme function?

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- ☒ 1. Vitamin C
- ☒ 2. Thiamine (B1)
- ☒ 3. Vitamin K
- ☒ 4. Niacin (B3)

Question ID : 441009651371
Option 1 ID : 4410092559741
Option 2 ID : 4410092559743
Option 3 ID : 4410092559742
Option 4 ID : 4410092559744

Q Where do polytene chromosomes occur?

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- ☒ 1. In the root tips of flowering plants
- ☒ 2. In the mitochondria of amphibians
- ☒ 3. In the red blood cells of mammals
- ☒ 4. In the salivary glands of dipteran insects

Question ID : 441009950309
Option 1 ID : 4410093754672
Option 2 ID : 4410093754670
Option 3 ID : 4410093754669
Option 4 ID : 4410093754671

Section : Discipline6

Q Which molecule plays a role in the RNA interference (RNAi) process?

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- ☒ 1. siRNA (small interfering RNA)
- ☒ 2. DNA polymerase
- ☒ 3. rRNA
- ☒ 4. tRNA

Question ID : 441009650886
Option 1 ID : 4410092557802
Option 2 ID : 4410092557801
Option 3 ID : 4410092557804
Option 4 ID : 4410092557803

Q By the production of the surface antigen of hepatitis B virus, which plant clinical trial has been demonstrated in humans to an immune response?

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- ☒ 1. Transgenic pears
- ☒ 2. Transgenic apples
- ☒ 3. Transgenic mangos
- ☒ 4. Transgenic potato

Question ID : 441009651318
Option 1 ID : 4410092559531
Option 2 ID : 4410092559530
Option 3 ID : 4410092559532
Option 4 ID : 4410092559529

Q Who produced the first artificial hybrid?

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- ✓ 1. Thomas Fairchild
- ✗ 2. Thomas R Cech and Sidney Altman
- ✗ 3. Robert Braun
- ✗ 4. LW Sharp

Question ID : 441009650821
Option 1 ID : 4410092557542
Option 2 ID : 4410092557541
Option 3 ID : 4410092557543
Option 4 ID : 4410092557544

Q The first clinical gene therapy was given in 1990 to a four-year old girl for which of the following deficiencies?

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- ✗ 1. Insulin deficiency
- ✗ 2. Vitamin D deficiency
- ✓ 3. Adenosine deaminase deficiency
- ✗ 4. Vitamin B deficiency

Question ID : 441009651328
Option 1 ID : 4410092559571
Option 2 ID : 4410092559569
Option 3 ID : 4410092559572
Option 4 ID : 4410092559570

Q Which disease has been effectively treated with gene therapy?

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- ✗ 1. Diabetes
- ✓ 2. Severe Combined Immunodeficiency (SCID)
- ✗ 3. HIV/AIDS
- ✗ 4. Alzheimer's disease

Question ID : 441009650885
Option 1 ID : 4410092557800
Option 2 ID : 4410092557798
Option 3 ID : 4410092557797
Option 4 ID : 4410092557799

Q Some strains of *Bacillus thuringiensis* produce proteins in Bt cotton that kill certain insects, EXCEPT:

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- ✗ 1. Tobacco budworm
- ✓ 2. Parasitic wasps
- ✗ 3. Armyworm
- ✗ 4. Mosquitoes

Question ID : 441009651332
Option 1 ID : 4410092559585
Option 2 ID : 4410092559588
Option 3 ID : 4410092559586
Option 4 ID : 4410092559587

Q Which of the following processes allows for the acquisition of fusion products, specifically hybrids and cybrids?

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- ☒ 1. Protoplast fusion
- ☐ 2. Anther culture
- ☐ 3. Embryo culture
- ☐ 4. Somatic embryogenesis

Question ID : 441009651339
Option 1 ID : 4410092559616
Option 2 ID : 4410092559614
Option 3 ID : 4410092559615
Option 4 ID : 4410092559613

Q Which of the following is a pioneer stage in hydrosere or hydrarch?

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- ☒ 1. Phytoplankton Stage
- ☐ 2. Reed-Swamp Stage
- ☐ 3. Rooted Floating Stage
- ☐ 4. Sedge-Meadow Stage

Question ID : 441009650958
Option 1 ID : 4410092558089
Option 2 ID : 4410092558091
Option 3 ID : 4410092558090
Option 4 ID : 4410092558092

Q The process of producing a hybrid, possessing a nuclear genome from only one parent, but cytoplasmic genes from both the parents is called:

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- ☒ 1. Cybridization
- ☐ 2. Somacloning
- ☐ 3. Somatic hybridization
- ☐ 4. Protoplast fusion

Question ID : 441009651181
Option 1 ID : 4410092558984
Option 2 ID : 4410092558983
Option 3 ID : 4410092558982
Option 4 ID : 4410092558981

Q What percentage of carbon is found dissolved in the oceans?

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- ☐ 1. 10%
- ☐ 2. 21%
- ☐ 3. 32%
- ☒ 4. 71%

Question ID : 441009651382
Option 1 ID : 4410092559785
Option 2 ID : 4410092559786
Option 3 ID : 4410092559787
Option 4 ID : 4410092559788

Q Which of the following are being used to test the safety of the polio vaccine?

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- ☒ 1. Transgenic mice
- ☐ 2. Transgenic monkey
- ☐ 3. Transgenic sheep
- ☐ 4. Transgenic horse

Question ID : 441009651322
Option 1 ID : 4410092559546
Option 2 ID : 4410092559545
Option 3 ID : 4410092559548
Option 4 ID : 4410092559547

Q Which plant, by production of proteins, is often cited as a potential source of oral vaccines?

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- ☐ 1. Transgenic mangos
- ☐ 2. Transgenic apples
- ☒ 3. Transgenic bananas
- ☐ 4. Transgenic papaya

Question ID : 441009651319
Option 1 ID : 4410092559535
Option 2 ID : 4410092559534
Option 3 ID : 4410092559533
Option 4 ID : 4410092559536

Q Which micronutrient has been a primary target for biofortification in golden rice?

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- ☐ 1. Zinc
- ☐ 2. Iron
- ☒ 3. Vit A
- ☐ 4. Vit B

Question ID : 441009982467
Option 1 ID : 4410093882334
Option 2 ID : 4410093882336
Option 3 ID : 4410093882335
Option 4 ID : 4410093882337

Q Most of the immunodeficiency symptoms of _____ are associated with a reduction in cluster determinant antigen 4 (CD4) cells.

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- ☐ 1. autoimmune haemolytic anaemia
- ☐ 2. cancer
- ☐ 3. allergy
- ☒ 4. AIDS

Question ID : 441009651364
Option 1 ID : 4410092559715
Option 2 ID : 4410092559713
Option 3 ID : 4410092559714
Option 4 ID : 4410092559716

Q In which one technique can infection by pathogen be detected by the presence of antigens (proteins, glycoproteins, etc.) or by detecting the antibodies synthesised against the pathogen?

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☐ 1. Polymerase Chain Reaction

☐ 2. Gene Therapy

☒ 3. Enzyme Linked Immuno-sorbent Assay

☐ 4. Recombinant DNA technology

Question ID : 441009651324

Option 1 ID : 4410092559555

Option 2 ID : 4410092559553

Option 3 ID : 4410092559556

Option 4 ID : 4410092559554

Q You visit a new city and shortly after arrival, you begin experiencing sneezing, wheezing and watery eyes. However, once you leave the area, your symptoms completely disappear. Which of the following best explains your symptoms?

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☐ 1. The symptoms were due to a sudden drop in blood pressure

☐ 2. Dehydration due to climate change

☒ 3. Exposure to airborne allergens like pollen or dust

☐ 4. Your immune system became stronger in the new place

Question ID : 441009949058

Option 1 ID : 4410093749696

Option 2 ID : 4410093749697

Option 3 ID : 4410093749698

Option 4 ID : 4410093749695

Q Which of the following diseases is NOT spread by mere touch or physical contact, but spreads only through body fluids?

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☐ 1. Allergy

☐ 2. Common cold

☒ 3. AIDS

☐ 4. Typhoid

Question ID : 441009651368

Option 1 ID : 4410092559729

Option 2 ID : 4410092559732

Option 3 ID : 4410092559730

Option 4 ID : 4410092559731

Q Which company prepared genetically engineered insulin for the first time?

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☐ 1. Ranbaxy

☒ 2. Eli Lilly

☐ 3. MSD

☐ 4. Cipla

Question ID : 441009965426

Option 1 ID : 4410093814967

Option 2 ID : 4410093814965

Option 3 ID : 4410093814966

Option 4 ID : 4410093814964

Q Which microorganism species are free-living, very common in the root ecosystems, and are effective biocontrol agents of several plant pathogens?

1

- Answers
- ☒ 1. Nucleopolyhedrovirus
 - ☒ 2. Trichoderma
 - ☒ 3. Bacillus thuringiensis
 - ☒ 4. Azospirillum

Question ID : 441009651363
 Option 1 ID : 4410092559710
 Option 2 ID : 4410092559709
 Option 3 ID : 4410092559711
 Option 4 ID : 4410092559712

Q Which of the following statements is INCORRECT, regarding cryopreservation by which cells are preserved?

2

- Answers
- ☒ 1. Done using vapour nitrogen (at -150°C) and liquid nitrogen (at -196°C)
 - ☒ 2. Done at a very low temperature using solid carbon dioxide (at -75°C)
 - ☒ 3. Done at a very low temperature using solid carbon dioxide (at -79°C)
 - ☒ 4. Uses low temperature deep freezers (at -80°C)

Question ID : 441009651341
 Option 1 ID : 4410092559623
 Option 2 ID : 4410092559624
 Option 3 ID : 4410092559622
 Option 4 ID : 4410092559621

Section : Discipline7

Q Which of the following cells is primarily responsible for the production of antibodies in the immune system?

1

- Answers
- ☒ 1. B-cells
 - ☒ 2. Macrophages
 - ☒ 3. T-cells
 - ☒ 4. Dendritic cells

Question ID : 441009651126
 Option 1 ID : 4410092558762
 Option 2 ID : 4410092558763
 Option 3 ID : 4410092558761
 Option 4 ID : 4410092558764

Q Which of the following is correct regarding ecological succession?

2

- Answers
- ☒ 1. Lithosere succession on water
 - ☒ 2. Psammosere succession on sand
 - ☒ 3. Hydrosere succession on rock
 - ☒ 4. Halosere succession on rock

Question ID : 441009650927
 Option 1 ID : 4410092557966
 Option 2 ID : 4410092557967
 Option 3 ID : 4410092557965
 Option 4 ID : 4410092557968

Q In the stratosphere, the UV rays act on which gas, releasing Cl atoms, where Cl degrades ozone, resulting in the release of molecular oxygen each time when this gas comes in contact with the stratosphere?

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- ☒ 1. CFCs
☐ 2. CO
☐ 3. CH₄
☐ 4. CO₂

Question ID : 441009651313
Option 1 ID : 4410092559511
Option 2 ID : 4410092559512
Option 3 ID : 4410092559510
Option 4 ID : 4410092559509

Q The plasma membranes of macrophages possess receptors that recognise and bind the C-terminal of Fe regions of heavy chains of immunoglobulins. As a result, the macrophage receptors are called:

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- ☐ 1. Factor B
☒ 2. FC receptor
☐ 3. C3 convertase
☐ 4. Factor D

Question ID : 441009650902
Option 1 ID : 4410092557866
Option 2 ID : 4410092557865
Option 3 ID : 4410092557868
Option 4 ID : 4410092557867

Q The given vegetative characteristics belong to which community?

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Ericaceous fynbos, with Erica; More sparse-occur at summits; Rainfall: 200- 2000 mm per year; Geomorphology: Mountain summits

- ☒ 1. Alpine Fynbos
☐ 2. Proteoid Fynbos
☐ 3. Succulent Karoo
☐ 4. Strandveld

Question ID : 441009651283
Option 1 ID : 4410092559391
Option 2 ID : 4410092559390
Option 3 ID : 4410092559392
Option 4 ID : 4410092559389

Q Haptens are usually small organic molecules; they become antigenic if they are coupled to a suitable macromolecule called:

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- ☐ 1. Fibril
☒ 2. Carrier
☐ 3. Satellite
☐ 4. Fragment

Question ID : 441009650667
Option 1 ID : 4410092556928
Option 2 ID : 4410092556925
Option 3 ID : 4410092556927
Option 4 ID : 4410092556926

Q Pollution from automobile emissions can be reduced by many methods, EXCEPT which one of the following?

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- ☒ 1. Unburnt hydrocarbons can be reduced by the use of efficient engines
- ☒ 2. Two wheelers should be two-stroke engines which emit only 10-15% unburnt hydrocarbons
- ☒ 3. The use of leaded petrol should be replaced by unleaded petrol to reduce lead pollution
- ☒ 4. Toxic pollution can be minimised by the use of compressed natural gas (CNG) in automobiles

Question ID : 441009651303
Option 1 ID : 4410092559469
Option 2 ID : 4410092559471
Option 3 ID : 4410092559470
Option 4 ID : 4410092559472

Q What type of antigen is capable of eliciting an immune response without being attached to a carrier protein?

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- ☒ 1. Incomplete antigen
- ☒ 2. T-dependent antigen
- ☒ 3. Complete antigen
- ☒ 4. T-independent antigen

Question ID : 441009650722
Option 1 ID : 4410092557146
Option 2 ID : 4410092557147
Option 3 ID : 4410092557145
Option 4 ID : 4410092557148

Q Which radionuclide poses the most significant long-term hazard in high-level nuclear waste due to its half-life?

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- ☒ 1. Plutonium-239
- ☒ 2. Cesium-137
- ☒ 3. Iodine-131
- ☒ 4. Strontium-90

Question ID : 441009651025
Option 1 ID : 4410092558358
Option 2 ID : 4410092558357
Option 3 ID : 4410092558359
Option 4 ID : 4410092558360

Q Which of the following is correct regarding an ecotone?

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- ☒ 1. The use of 80% of a nonrenewable resource
- ☒ 2. A transition area between two adjacent ecological communities
- ☒ 3. A chemical used to control pests and defoliate cash crop
- ☒ 4. The carrying capacity of a given area

Question ID : 441009651284
Option 1 ID : 4410092559396
Option 2 ID : 4410092559393
Option 3 ID : 4410092559395
Option 4 ID : 4410092559394

Q The bedbug, an ectoparasitic insect feeding upon human blood, has which of the following scientific names?

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- ☐ 1. Squilla
- ☐ 2. Hippa
- ☐ 3. Eupagurus
- ☒ 4. Cimex

Question ID : 441009650894
Option 1 ID : 4410092557834
Option 2 ID : 4410092557836
Option 3 ID : 4410092557833
Option 4 ID : 4410092557835

Q Which of the following types of pollutants causes the phenomenon of increased toxicity known as synergisms?

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- ☐ 1. Secondary pollutants
- ☐ 2. Bio-degradable pollutants
- ☒ 3. Primary pollutants
- ☐ 4. Non-biodegradable pollutants

Question ID : 441009651307
Option 1 ID : 4410092559486
Option 2 ID : 4410092559487
Option 3 ID : 4410092559485
Option 4 ID : 4410092559488

Q Which of the following statements about the plant nicknamed "Terror of Bengal" is correct?

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- ☐ 1. It is a useful plant for fish farming.
- ☐ 2. It is a rare plant found only in Bengal.
- ☐ 3. It is a native aquatic plant that purifies water bodies.
- ☒ 4. It spreads quickly and pollutes water bodies.

Question ID : 441009949194
Option 1 ID : 4410093750231
Option 2 ID : 4410093750233
Option 3 ID : 4410093750234
Option 4 ID : 4410093750232

Q According to the U.S. Environmental Protection Agency (EPA), the pollutants for which ambient air standards have been defined to protect human health and welfare are called as:

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- ☐ 1. Standard Air Pollutants
- ☐ 2. Toxic Air Pollutants
- ☒ 3. Criteria Air Pollutants
- ☐ 4. Critical Air Pollutants

Question ID : 441009650686
Option 1 ID : 4410092557001
Option 2 ID : 4410092557004
Option 3 ID : 4410092557002
Option 4 ID : 4410092557003

Q What is the primary difference between humoral and cell-mediated immunity?

15

A ☒ 1. Humoral immunity involves antibodies, while cell-mediated immunity involves T cells.

☐ 2. Humoral immunity is specific to viral infections, while cell-mediated immunity is specific to bacterial infections.

☐ 3. Humoral immunity is innate, while cell-mediated immunity is adaptive.

☐ 4. Humoral immunity involves T cells, while cell-mediated immunity involves B cells.

Question ID : 4410091004104

Option 1 ID : 4410093968000

Option 2 ID : 4410093968001

Option 3 ID : 4410093968002

Option 4 ID : 4410093967999

Q _____ is a structural and functional unit of nature and it comprises abiotic and biotic components.

16

A ☐ 1. Habitat

☐ 2. Niche

☒ 3. Ecosystem

☐ 4. Climate

Question ID : 441009951344

Option 1 ID : 4410093758754

Option 2 ID : 4410093758756

Option 3 ID : 4410093758753

Option 4 ID : 4410093758755

Q What is the most effective approach to reduce indoor air pollution?

17

A ☐ 1. Sealing windows tightly

☐ 2. Burning incense

☐ 3. Use of air coolers

☒ 4. Improving ventilation

Question ID : 441009651028

Option 1 ID : 4410092558372

Option 2 ID : 4410092558371

Option 3 ID : 4410092558369

Option 4 ID : 4410092558370

Q Which of the following statements about microbial reproduction is accurate?

18

A ☒ 1. Bacteria reproduce through binary fission, a process in which a single cell divides to form two genetically identical daughter cells.

☐ 2. Viruses reproduce through binary fission, similar to bacteria.

☐ 3. Fungi reproduce exclusively through binary fission.

☐ 4. Protozoa reproduce only through sexual reproduction.

Question ID : 441009651107

Option 1 ID : 4410092558685

Option 2 ID : 4410092558686

Option 3 ID : 4410092558687

Option 4 ID : 4410092558688

Q Which of the following values can be used to assess the self-purification capacity of a water body and determine potential pollution control measures?

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- ☒ 1. Biomagnification
- ☒ 2. Biological Oxygen Demand
- ☒ 3. Eutrophication
- ☒ 4. Sanitary landfills

Question ID : 441009651299
 Option 1 ID : 4410092559455
 Option 2 ID : 4410092559453
 Option 3 ID : 4410092559454
 Option 4 ID : 4410092559456

Q Which type of hypersensitivity reaction is typically characterised by a rapid onset of symptoms upon exposure to an allergen?

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

Question ID : 441009651119
 Option 1 ID : 4410092558733
 Option 2 ID : 4410092558734
 Option 3 ID : 4410092558736
 Option 4 ID : 4410092558735

Section : Discipline8

Q During embryonic development, which of the following structures forms from the mesoderm and contributes to the development of the heart?

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- ☒ 1. Optic vesicle
- ☒ 2. Pharyngeal arches
- ☒ 3. Neural crest cells
- ☒ 4. Somites

Question ID : 441009651104
 Option 1 ID : 4410092558673
 Option 2 ID : 4410092558674
 Option 3 ID : 4410092558675
 Option 4 ID : 4410092558676

Q Which of the following insects is known for its high protein content and is often consumed in Southeast Asia?

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- ☒ 1. Grasshoppers
- ☒ 2. Mealworms
- ☒ 3. Crickets
- ☒ 4. Palm weevil larvae

Question ID : 4410091007299
 Option 1 ID : 4410093980828
 Option 2 ID : 4410093980827
 Option 3 ID : 4410093980826
 Option 4 ID : 4410093980829

Q Silkworms undergo which type of metamorphosis?

3
Answers

- ☒ 1. Incomplete
- ☒ 2. Ametabolous
- ☒ 3. Complete
- ☒ 4. Hemimetabolous

Question ID : 441009650714
Option 1 ID : 4410092557113
Option 2 ID : 4410092557116
Option 3 ID : 4410092557114
Option 4 ID : 4410092557115

Q Which of the following bacteria causes corn stunt disease?

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Answers

- ☒ 1. Xylella fastidiosa
- ☒ 2. Spiroplasma kunkelii
- ☒ 3. Xanthomonas Oryzae
- ☒ 4. Candidatus Phytoplasma teiofolii

Question ID : 441009650826
Option 1 ID : 4410092557562
Option 2 ID : 4410092557563
Option 3 ID : 4410092557564
Option 4 ID : 4410092557561

Q Maggot disease, pebrine, polyhedrosis and flacherie are the diseases that cause severe damage to which of the following industries?

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Answers

- ☒ 1. Sericulture
- ☒ 2. Apiculture
- ☒ 3. Lac culture
- ☒ 4. Pearl culture

Question ID : 441009650865
Option 1 ID : 4410092557720
Option 2 ID : 4410092557717
Option 3 ID : 4410092557719
Option 4 ID : 4410092557718

Q Which of the following is a significant advantage of consuming edible insects over traditional livestock?

6
Answers

- ☒ 1. Larger land usage
- ☒ 2. Increased pollution
- ☒ 3. Higher protein content
- ☒ 4. Lower protein content

Question ID : 441009650695
Option 1 ID : 4410092557039
Option 2 ID : 4410092557040
Option 3 ID : 4410092557037
Option 4 ID : 4410092557038

Q Which of the following fungi produce the enzyme, cutinase?

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☒ 1. Rhizopus

☒ 2. Fusarium solani

☒ 3. Claviceps

☒ 4. Agaricus

Question ID : 441009650818
Option 1 ID : 4410092557530
Option 2 ID : 4410092557529
Option 3 ID : 4410092557532
Option 4 ID : 4410092557531

Q Which of the following statements best describes the concept of cell lineage in developmental biology?

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A ☒ 1. Cell lineage refers to the sequence of cell divisions that lead to the formation of a multicellular organism, starting from a single fertilized egg.

☒ 2. Cell lineage is the process by which cells in a tissue communicate with each other to coordinate their functions.

☒ 3. Cell lineage describes the migration patterns of cells within a tissue during embryogenesis.

☒ 4. Cell lineage is the study of the interaction between cells and their surrounding extracellular matrix.

Question ID : 441009651097
Option 1 ID : 4410092558645
Option 2 ID : 4410092558646
Option 3 ID : 4410092558647
Option 4 ID : 4410092558648

Q Which of the following insects belongs to the economically important group due to its beneficial role in agriculture or industry?

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☒ 1. Anopheles

☒ 2. Limulus (King crab)

☒ 3. Bombyx mori (Silkworm)

☒ 4. Aedes

Question ID : 441009968823
Option 1 ID : 4410093828446
Option 2 ID : 4410093828448
Option 3 ID : 4410093828445
Option 4 ID : 4410093828447

Q Which gene family is responsible for segmental identity along the anterior-posterior axis in vertebrates?

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☒ 1. BMP

☒ 2. Hox

☒ 3. SHH

☒ 4. FGF

Question ID : 441009969182
Option 1 ID : 4410093829862
Option 2 ID : 4410093829861
Option 3 ID : 4410093829864
Option 4 ID : 4410093829863

Q What type of organic material is generally considered best for vermicomposting?

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- ☒ 1. A balanced mixture of carbon and nitrogen
- ☐ 2. Only kitchen scraps
- ☐ 3. High carbon materials like straw
- ☐ 4. High nitrogen materials like manure

Question ID : 441009650704
Option 1 ID : 4410092557075
Option 2 ID : 4410092557076
Option 3 ID : 4410092557073
Option 4 ID : 4410092557074

Q Shortly after a hen's egg is laid, a local thickening of the epiblast is formed at the posterior edge of the area pellucida. This is called:

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- ☐ 1. Hensen's node
- ☐ 2. primitive groove
- ☐ 3. primitive knot
- ☒ 4. Koller's sickle

Question ID : 441009650644
Option 1 ID : 4410092556836
Option 2 ID : 4410092556834
Option 3 ID : 4410092556835
Option 4 ID : 4410092556833

Q During heart development, the primary precursor cells for the heart are known as:

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- ☐ 1. endodermal cells
- ☒ 2. mesodermal progenitors
- ☐ 3. hemangioblasts
- ☐ 4. myoblasts

Question ID : 441009650632
Option 1 ID : 4410092556788
Option 2 ID : 4410092556787
Option 3 ID : 4410092556786
Option 4 ID : 4410092556785

Q There are three different forms of citrus canker. Identify which of the following organisms causes Cancrosis B or false Canker.

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- ☒ 1. *Xanthomonas citri* pv. *aurantifolii*
- ☐ 2. *Xanthomonas citri* pv. *citri*
- ☐ 3. *Xanthomonas campestris*
- ☐ 4. *Xanthomonas axonopodis*

Question ID : 441009651156
Option 1 ID : 4410092558883
Option 2 ID : 4410092558881
Option 3 ID : 4410092558884
Option 4 ID : 4410092558882

Q For controlling plant diseases, the approach of using one or more organisms to maintain a given pest or pathogen at such a level that it no longer remains a problem, and does not disturb the ecosystem balance, is called:

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- ☒ 1. Hyperparasitism
- ☒ 2. Biological Control
- ☒ 3. Hypovirulence
- ☒ 4. Antibiosis

Question ID : 441009651153
Option 1 ID : 4410092558870
Option 2 ID : 4410092558871
Option 3 ID : 4410092558872
Option 4 ID : 4410092558869

Q The vector responsible for the transmission of West Nile virus is:

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- ☒ 1. Anopheles quadrimaculatus
- ☒ 2. Culex pipiens
- ☒ 3. Aedes vexans
- ☒ 4. Tabanus sudanicus

Question ID : 441009650715
Option 1 ID : 4410092557117
Option 2 ID : 4410092557118
Option 3 ID : 4410092557119
Option 4 ID : 4410092557120

Q Which species of earthworm is most commonly used in vermiculture for effective composting due to its high rate of organic matter decomposition and adaptability to confined environments?

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- ☒ 1. Lumbricus terrestris
- ☒ 2. Eisenia fetida
- ☒ 3. Aporectodea longa
- ☒ 4. Allolobophora caliginosa

Question ID : 441009651110
Option 1 ID : 4410092558697
Option 2 ID : 4410092558698
Option 3 ID : 4410092558700
Option 4 ID : 4410092558699

Q Which of the following is correct regarding the molecular basis of infection and disease resistance defence?

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- ☒ 1. bt2 gene encoding Bt toxin derived from Bacillus thurengensis
- ☒ 2. bt4 gene encoding Bt toxin derived from Bacillus thurengensis
- ☒ 3. ct2 gene encoding Bt toxin derived from Bacillus thurengensis
- ☒ 4. bt2 gene encoding Bt toxin derived from Bacillus thurengensis

Question ID : 441009650817
Option 1 ID : 4410092557527
Option 2 ID : 4410092557528
Option 3 ID : 4410092557526
Option 4 ID : 4410092557525

Q What hormones regulate gametogenesis in males and females?

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- Answers
- ☒ 1. Oxytocin and prolactin
 - ☒ 2. Progesterone and inhibin
 - ☒ 3. Testosterone and estrogen
 - ☒ 4. FSH and LH

Question ID : 4410091007188
 Option 1 ID : 4410093980357
 Option 2 ID : 4410093980356
 Option 3 ID : 4410093980354
 Option 4 ID : 4410093980355

Q Which genes are primarily responsible for the development of the body plan along the anterior-posterior axis in humans?

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- Answers
- ☒ 1. Sonic Hedgehog (Shh)
 - ☒ 2. Homeobox genes
 - ☒ 3. Box genes
 - ☒ 4. Pax genes

Question ID : 441009651095
 Option 1 ID : 4410092558638
 Option 2 ID : 4410092558640
 Option 3 ID : 4410092558637
 Option 4 ID : 4410092558639

Section : Discipline9

Q Which stain is frequently utilised to distinguish between various types of blood cells?

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- ☒ 1. Normal saline
- ☒ 2. Turkey's fluid
- ☒ 3. Leishman's stain
- ☒ 4. Hayem's fluid

Question ID : 441009650852
 Option 1 ID : 4410092557668
 Option 2 ID : 4410092557667
 Option 3 ID : 4410092557665
 Option 4 ID : 4410092557666

Q Which algorithm is commonly used for global sequence alignment?

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- ☒ 1. Needleman-Wunsch algorithm
- ☒ 2. ClustalW algorithm
- ☒ 3. Smith-Waterman algorithm
- ☒ 4. BLAST algorithm

Question ID : 4410091007379
 Option 1 ID : 4410093981175
 Option 2 ID : 4410093981178
 Option 3 ID : 4410093981176
 Option 4 ID : 4410093981177

Q Which of the following method is NOT included in the determination of DNA sequences?

3
Answers

- ☒ 1. Direct DNA Sequencing Using PCR
- ☒ 2. Maxam and Gilbert's Chemical Degradation Method
- ☒ 3. Polyacrylamide Gel Electrophoresis
- ☒ 4. Sanger's Dideoxynucleotide Synthetic Method

Question ID : 441009651292
Option 1 ID : 4410092559427
Option 2 ID : 4410092559425
Option 3 ID : 4410092559428
Option 4 ID : 4410092559426

Q Which of the following substitution matrices was developed by Steven. Henikoff and Jorja. G Henikoff. in 1992 from conserved regions called blocks and ungapped amino acid patterns of distantly related protein sequences available in BLOCKS database?

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Answers

- ☒ 1. PSA
- ☒ 2. MSA
- ☒ 3. BLOSUM
- ☒ 4. PAM

Question ID : 441009651227
Option 1 ID : 4410092559167
Option 2 ID : 4410092559166
Option 3 ID : 4410092559168
Option 4 ID : 4410092559165

Q Which biotechnique is named as 'people's choice reaction' that has largely replaced the technique of gene cloning in molecular biology research?

5
Answers

- ☒ 1. Polymerase Chain Reaction
- ☒ 2. DNA Sequencing
- ☒ 3. Flow Cytometry
- ☒ 4. Fluorescence in Situ Hybridisation

Question ID : 441009651291
Option 1 ID : 4410092559424
Option 2 ID : 4410092559421
Option 3 ID : 4410092559422
Option 4 ID : 4410092559423

Q Which statement is FALSE regarding RNA secondary structure prediction using the ab initio approach method?

6
Answers

- ☒ 1. Ab initio programs are designed to search for the most stable structure with the maximum number of base pairs.
- ☒ 2. This approach uses multiple evolutionarily related RNA sequences to infer a consensus structure.
- ☒ 3. The structure of an RNA molecule is solely determined by its sequence.
- ☒ 4. Algorithms can be designed to search for a stable RNA structure with the lowest free energy.

Question ID : 441009651221
Option 1 ID : 4410092559144
Option 2 ID : 4410092559141
Option 3 ID : 4410092559142
Option 4 ID : 4410092559143

Q Which of the following statements is INCORRECT regarding the merits of arithmetic mean?

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- ✓ 1. It is very much affected by extreme observation.
- ✗ 2. It is rightly defined and is an easy and ideal measures of central tendency.
- ✗ 3. Arithmetic mean provides base of many other methods of statistics.
- ✗ 4. It covers all the observations and is easy to calculate and understand.

Question ID : 441009651241
Option 1 ID : 4410092559223
Option 2 ID : 4410092559221
Option 3 ID : 4410092559224
Option 4 ID : 4410092559222

Q Which biotechniques is an analytical method used to separate components of a protein mixture based on their size?

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- ✗ 1. Fluorescence in situ hybridization (FISH)
- ✗ 2. Agarose Gel Electrophoresis
- ✗ 3. Spectroscopy
- ✓ 4. Polyacrylamide Gel Electrophoresis

Question ID : 441009651297
Option 1 ID : 4410092559447
Option 2 ID : 4410092559446
Option 3 ID : 4410092559448
Option 4 ID : 4410092559445

Q Which pathological conditions can be identified through synovial fluid analysis?

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- ✓ 1. Joint disorders
- ✗ 2. Heart disease
- ✗ 3. Pulmonary infections
- ✗ 4. Brain tumours

Question ID : 441009650848
Option 1 ID : 4410092557650
Option 2 ID : 4410092557649
Option 3 ID : 4410092557652
Option 4 ID : 4410092557651

Q Some blood types contain antibodies that trigger immune reactions against other blood types, so a doctor gets to decide what type of donor blood is compatible. Which of the following statements is INCORRECT in relation to this?

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- ✗ 1. If you have type O blood, you should only receive type O blood.
- ✗ 2. If you have type B blood, you should only receive B or O blood types.
- ✗ 3. If you have type A blood, you should only receive A or O blood types.
- ✓ 4. If you have type AB blood, you should only receive A, B or AB blood types.

Question ID : 441009651258
Option 1 ID : 4410092559292
Option 2 ID : 4410092559290
Option 3 ID : 4410092559289
Option 4 ID : 4410092559291

Q What is the main principle underlying the process of electrophoresis?

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1

A ☒ 1. Separation based on particle charge and size

☐ 2. Separation based on solubility

☐ 3. Separation based on density

☐ 4. Separation based on magnetism

Question ID : 441009651018

Option 1 ID : 4410092558329

Option 2 ID : 4410092558330

Option 3 ID : 4410092558331

Option 4 ID : 4410092558332

Q Which of the following statement correctly describes the term phylogeny?

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2

A ☐ 1. It refers to the classification of organisms based on chemical traits alone.

☐ 2. It is the study of how animals interact with humans.

☒ 3. It is the study of evolutionary history and relationships among species or groups of organisms.

☐ 4. It is the study of how organisms interact with their environment.

Question ID : 441009969307

Option 1 ID : 4410093830378

Option 2 ID : 4410093830380

Option 3 ID : 4410093830379

Option 4 ID : 4410093830377

Q Which type of test helps to diagnose conditions that cause inflammation and also monitor many types of conditions which causes arthritis, vasculitis, infections and inflammatory bowel disease?

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3

A ☒ 1. An erythrocyte sedimentation rate test

☐ 2. Wright stain test

☐ 3. Carnoy's fluid test

☐ 4. Leishamn's stain test

Question ID : 441009651259

Option 1 ID : 4410092559296

Option 2 ID : 4410092559294

Option 3 ID : 4410092559295

Option 4 ID : 4410092559293

Q Which type of microscope is utilised primarily to examine the surfaces of objects ranging in size from a virus to an animal head, and the image is formed by electrons that are reflected back from the specimen (back-scattered) or by secondary electrons given off by the specimen after being struck by the primary electron beam?

4

A ☐ 1. Transmission electron microscope

☐ 2. Light microscope

☒ 3. Scanning electron microscope

☐ 4. Atomic force microscope

Question ID : 441009651287

Option 1 ID : 4410092559406

Option 2 ID : 4410092559408

Option 3 ID : 4410092559405

Option 4 ID : 4410092559407

Q Which of the following statements is INCORRECT regarding median?

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A ☒ 1. Median is not easy to calculate.

☒ 2. A median of a distribution is defined as the value of that variable which divides the total frequency into two equal parts when the series is arranged in ascending or descending order of magnitude.

☒ 3. Median is computed differently if the number of observation (n) is odd and when even.

☒ 4. Median value is the value of the $(N + 1/2)^{\text{th}}$ item.

Question ID : 441009651240
Option 1 ID : 4410092559220
Option 2 ID : 4410092559217
Option 3 ID : 4410092559219
Option 4 ID : 4410092559218

Q How are genes detected on a microarray?

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A ☒ 1. By hybridisation with fluorescent-labelled probes

☒ 2. Through X-ray imaging

☒ 3. Via electron microscopy

☒ 4. Using radioisotopes

Question ID : 441009650855
Option 1 ID : 4410092557678
Option 2 ID : 4410092557677
Option 3 ID : 4410092557680
Option 4 ID : 4410092557679

Q Which of the following biological databases is used to store a collection of 3D structures of proteins, nucleic acids, and complex assemblies?

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A ☒ 1. PubMed

☒ 2. GenBank

☒ 3. PDB

☒ 4. UniProt

Question ID : 441009651229
Option 1 ID : 4410092559176
Option 2 ID : 4410092559173
Option 3 ID : 4410092559174
Option 4 ID : 4410092559175

Q Which of the following statements is INCORRECT about Turk's Fluid?

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A ☒ 1. It also known as Turk's solution, is a haematological stain used to count white blood cells (WBCs) in blood samples.

☒ 2. It is made of crystal violet or aqueous methylene blue, glacial acetic acid and mercuric chloride.

☒ 3. It is used in haemocytometry to determine the total leukocyte count in a blood sample, and it also helps diagnose blood disorders.

☒ 4. The acetic acid destroys red blood cells and platelets, while the stain makes the nuclei of white blood cells easier to see and count.

Question ID : 441009651263
Option 1 ID : 4410092559309
Option 2 ID : 4410092559310
Option 3 ID : 4410092559312
Option 4 ID : 4410092559311

Q Which statement is INCORRECT regarding Hayem's fluid?

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A ☒ 1. Hayem's fluid, also known as RBC diluting fluid, is a colourless solution used to dilute blood samples before counting red blood cells (RBCs) with a hemocytometer.

☒ 2. Hayem's fluid is hypotonic with blood so it may cause hemolysis.

☒ 3. Hayem's fluid can cause mild skin and eye irritation, and is toxic to aquatic life.

☒ 4. It contains sodium chloride, sodium sulphate and mercuric chloride.

Question ID : 441009651264

Option 1 ID : 4410092559313

Option 2 ID : 4410092559315

Option 3 ID : 4410092559316

Option 4 ID : 4410092559314

Q Which of the following biological databases is a comprehensive, highly annotated, non-redundant composite database of protein sequences which has been created from major primary source of sequences as SWISS-PROT, 2 NBRF-PIR, NBRF-NEW, NEWAT86, PSD-KYOTO, GenBank (translation) and NRL-3D, out of which SWISS-PROT is of 0 main concern?

A ☒ 1. MMDB

☒ 2. OWL

☒ 3. NRDB

☒ 4. EMBL

Question ID : 441009651228

Option 1 ID : 4410092559172

Option 2 ID : 4410092559169

Option 3 ID : 4410092559171

Option 4 ID : 4410092559170

Section : Teaching Methodology

Q Which of the following categories is NOT covered under the IEDC scheme?

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A

☒ 1. Cerebral palsy

☒ 2. Children with gifted intelligence

☒ 3. Orthopaedically handicapped

☒ 4. Blind and visually impaired

Question ID : 441009924146

Option 1 ID : 4410093650739

Option 2 ID : 4410093650738

Option 3 ID : 4410093650736

Option 4 ID : 4410093650737

Q Which of the following best represents the role of the teacher in a constructivist classroom?

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A

☒ 1. A passive observer in the learning process

☒ 2. A facilitator who guides students

☒ 3. A knowledge transmitter who delivers information

☒ 4. A strict disciplinarian enforcing rote learning

Question ID : 441009902380

Option 1 ID : 4410093563485

Option 2 ID : 4410093563483

Option 3 ID : 4410093563482

Option 4 ID : 4410093563484

Q According to the cognitive perspective, learning involves changes in which of the following?

3
Answers

- ☐ 1. External behaviours
- ☐ 2. Physical activities
- ☐ 3. Genetic makeup
- ☒ 4. Mental processes

Question ID : 441009654461
Option 1 ID : 4410092572138
Option 2 ID : 4410092572141
Option 3 ID : 4410092572139
Option 4 ID : 4410092572140

Q Which learning theory emphasizes the role of reinforcement and punishment in shaping behavior?

4
Answers

- ☐ 1. Humanism
- ☒ 2. Behaviourism
- ☐ 3. Social Constructivism
- ☐ 4. Cognitive Constructivism

Question ID : 441009654463
Option 1 ID : 4410092572149
Option 2 ID : 4410092572148
Option 3 ID : 4410092572147
Option 4 ID : 4410092572146

Q Evaluation in _____ approach focuses on the process that the individual learner takes in the process of knowledge creation.

5
Answers

- ☐ 1. behaviourist
- ☐ 2. cognitivist
- ☐ 3. competency-based
- ☒ 4. constructivist

Question ID : 441009922488
Option 1 ID : 4410093644098
Option 2 ID : 4410093644097
Option 3 ID : 4410093644096
Option 4 ID : 4410093644095

Q What is the main benefit of integrating formative assessments in subject pedagogy planning?

6
Answers

- ☐ 1. They reduce curriculum content
- ☐ 2. They create final grades
- ☒ 3. They provide ongoing feedback.
- ☐ 4. They encourage passive learning

Question ID : 441009654436
Option 1 ID : 4410092572041
Option 2 ID : 4410092572038
Option 3 ID : 4410092572040
Option 4 ID : 4410092572039

Q Which of the following best describes the term "simulation" in an educational context?

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- ☐ 1. Traditional lecture-based instruction
- ☐ 2. Passive observation of a skill
- ☐ 3. Completing individual assignments without interaction
- ☒ 4. Replicating real-life situations for learning and practice

Question ID : 441009654404
Option 1 ID : 4410092571912
Option 2 ID : 4410092571911
Option 3 ID : 4410092571913
Option 4 ID : 4410092571910

Q Which of the following can best describe the structure of a discipline?

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- ☐ 1. Logic, drama, design
- ☐ 2. Research, entertainment, fame
- ☐ 3. Rulebook, lessons, grades
- ☒ 4. Domain, method, history

Question ID : 441009905057
Option 1 ID : 4410093574094
Option 2 ID : 4410093574096
Option 3 ID : 4410093574093
Option 4 ID : 4410093574095

Q What marks the final stage of growth in both boys and girls during puberty?

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- ☐ 1. Growth spurt
- ☐ 2. Abrupt increase in weight
- ☒ 3. Slowing of height increase
- ☐ 4. Loss of appetite

Question ID : 441009924167
Option 1 ID : 4410093650828
Option 2 ID : 4410093650829
Option 3 ID : 4410093650830
Option 4 ID : 4410093650831

Q In the context of curriculum construction, which principle ensures that various subjects interconnect and support one another?

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- ☐ 1. Sequence and Continuity
- ☒ 2. Integration
- ☐ 3. Individualized Learning
- ☐ 4. Flexibility

Question ID : 441009654429
Option 1 ID : 4410092572012
Option 2 ID : 4410092572010
Option 3 ID : 4410092572011
Option 4 ID : 4410092572013

Q In subject pedagogy planning, why is the alignment between learning objectives, activities, and assessments important?

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- ☐ 1. To ensure content is covered quickly
- ☒ 2. To enhance coherence and effectiveness in teaching.
- ☐ 3. To maintain a strict classroom discipline.
- ☐ 4. To reduce the teacher's workload.

Question ID : 441009654490
Option 1 ID : 4410092572254
Option 2 ID : 4410092572256
Option 3 ID : 4410092572255
Option 4 ID : 4410092572257

Q A science class is also a language class because students must:

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- ☐ 1. memorise formulas
- ☐ 2. learn language grammar
- ☐ 3. watch experiments
- ☒ 4. use and understand terminology and concepts

Question ID : 441009904197
Option 1 ID : 4410093570652
Option 2 ID : 4410093570650
Option 3 ID : 4410093570649
Option 4 ID : 4410093570651

Q Which of the following denotes Gender Stereotype?

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- ☐ 1. Biological sex assigned at birth.
- ☐ 2. Physical appearance and behavior.
- ☒ 3. Oversimplified generalizations about the attributes of men and women.
- ☐ 4. How individuals perceive themselves and present themselves to others.

Question ID : 441009654442
Option 1 ID : 4410092572064
Option 2 ID : 4410092572065
Option 3 ID : 4410092572062
Option 4 ID : 4410092572063

Q What is the primary difference between a science and a social science?

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- ☒ 1. Sciences study natural phenomena, while social sciences study human behavior and society.
- ☐ 2. Sciences are quantitative, while social sciences are qualitative.
- ☐ 3. Sciences are objective, while social sciences are subjective.
- ☐ 4. Sciences use experiments, while social sciences use surveys.

Question ID : 441009654448
Option 1 ID : 4410092572086
Option 2 ID : 4410092572089
Option 3 ID : 4410092572088
Option 4 ID : 4410092572087

Q What does the term 'Division of Labour' signify in social sciences?

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- ☒ 1. Distribution of gendered roles
- ☐ 2. Separation of powers
- ☐ 3. Economic strategies
- ☐ 4. Biological differences

Question ID : 441009922838
Option 1 ID : 4410093645498
Option 2 ID : 4410093645497
Option 3 ID : 4410093645499
Option 4 ID : 4410093645500

Q Which principle considers differences in skills, interests and aptitude?

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- ☐ 1. Principle of Utility
- ☐ 2. Principle of Conservation
- ☒ 3. Principle of Individual Differences
- ☐ 4. Principle of Globalisation

Question ID : 441009924114
Option 1 ID : 4410093650603
Option 2 ID : 4410093650600
Option 3 ID : 4410093650602
Option 4 ID : 4410093650601

Q (a) These are more objective as they have numerical standard to compare and record (b) It is a product of that process. These indicates

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- ☐ 1. (a)- evaluation, (b)- measurement
- ☐ 2. both (a) and (b)-measurement
- ☒ 3. (a)-measurement, (b) -evaluation
- ☐ 4. both (a) and (b) - evaluation

Question ID : 441009655642
Option 1 ID : 4410092576860
Option 2 ID : 4410092576858
Option 3 ID : 4410092576857
Option 4 ID : 4410092576859

Q What does the humanistic perspective of learning focus on in terms of educational goals?

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- ☐ 1. Memorization of facts
- ☐ 2. Competition among peers
- ☒ 3. Development of self-actualization and personal growth
- ☐ 4. Academic achievements only

Question ID : 441009654460
Option 1 ID : 4410092572136
Option 2 ID : 4410092572137
Option 3 ID : 4410092572135
Option 4 ID : 4410092572134

Q Which developmental theorist emphasized the role of operant conditioning in shaping behavior?

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☒ 1. Erik Erikson

☒ 2. B. F. Skinner

☒ 3. Lev Vygotsky

☒ 4. Jean Piaget

Question ID : 441009654411

Option 1 ID : 4410092571941

Option 2 ID : 4410092571938

Option 3 ID : 4410092571939

Option 4 ID : 4410092571940

Q When was the Integrated Education for Disabled Children (IEDC) scheme launched?

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☒ 1. 2001

☒ 2. 1987

☒ 3. 1974

☒ 4. 1990

Question ID : 441009924143

Option 1 ID : 4410093650726

Option 2 ID : 4410093650724

Option 3 ID : 4410093650725

Option 4 ID : 4410093650727

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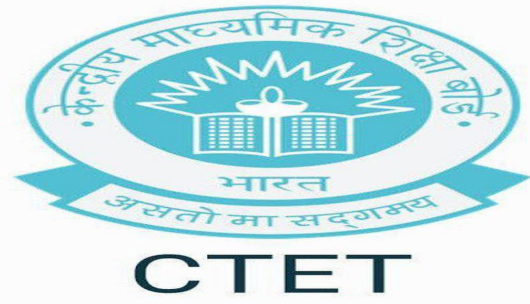
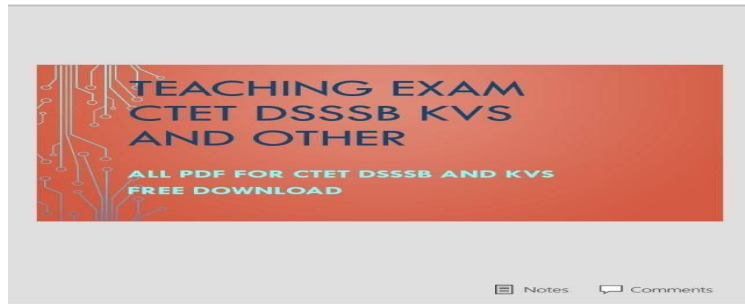
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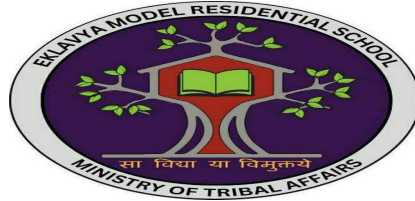
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