

DSSSB Exam July 2025

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Test Center Name	iON Digital Zone iDZ 2 Sector 62
Test Date	25/07/2025
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Subject	PGT Biology

Section : Mental Ability and Reasoning Ability

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 statements.

Statements: All coats are suits. All suits are jackets. Some jackets are loafers.

Conclusion (I): Some suits are loafers.

Conclusion (II): Some coats are loafers.

Answers ☒ 1. Only conclusion I follows.

☒ 2. Neither conclusion I nor II follows.

☒ 3. Only conclusion II follows.

☒ 4. Both conclusions I and II follow.

Question ID : 441009841505

Option 1 ID : 4410093319088

Option 2 ID : 4410093319091

Option 3 ID : 4410093319089

Option 4 ID : 4410093319090

Q. In a certain code language,
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'A + B' means 'A is the father of B',

'A - B' means 'A is the mother of B',

'A \$ B' means 'A is the wife of B',

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

'A # B' means 'A is the husband of B'.

Which of the following means that P is the father of Z's father?

Answers ☒ 1. P \$ D + Q % Z

☒ 2. P + Q % D \$ Z

☒ 3. P # R - S + Z

☒ 4. P % S - V # Z

Question ID : 441009841400

Option 1 ID : 4410093318670

Option 2 ID : 4410093318671

Option 3 ID : 4410093318668

Option 4 ID : 4410093318669

- 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.

Statement: Although Manoj had prepared very thoroughly for the exams, he was unable to score good marks.

Reasons:

- I) Manoj has reached an hour late for the exam.
II) Manoj is very interested in playing cricket.

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

Question ID : 441009844712
Option 1 ID : 4410093331714
Option 2 ID : 4410093331712
Option 3 ID : 4410093331715
Option 4 ID : 4410093331713

- Q. In the following series, only one letter-cluster is incorrect. Select the 4 INCORRECT letter-cluster.

PLI QMJ RNO SOL TPM UQN

- Answers
- ☒ 1. RNO
 - ☒ 2. SOL
 - ☒ 3. TPM
 - ☒ 4. UQN

Question ID : 441009841426
Option 1 ID : 4410093318772
Option 2 ID : 4410093318773
Option 3 ID : 4410093318774
Option 4 ID : 4410093318775

Q. This question is based on the following words.

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(Left) PEW REV LUV IMP (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?

Answers ☒ 1. Zero

☐ 2. One

☐ 3. Two

☐ 4. Three

Question ID : 441009840932

Option 1 ID : 4410093316796

Option 2 ID : 4410093316797

Option 3 ID : 4410093316798

Option 4 ID : 4410093316799

Q. A, B, C, D, E, F, G and H are sitting around a square table, facing the centre of the table (but not necessarily in the same order). Some of them are sitting at the corners, while some are sitting at the exact centre of the sides. B sits second to the right of H. H does not sit at any of the corners. Only three people sit between B and D. G does not sit at any of the corners. F is neither an immediate neighbour of H nor D. Only three people sit between F and C. A is not an immediate neighbour of B. How many people sit between E and F when counted from the right of E?

Answers ☐ 1. Three

☒ 2. One

☐ 3. Two

☐ 4. Four

Question ID : 441009841529

Option 1 ID : 4410093319186

Option 2 ID : 4410093319184

Option 3 ID : 4410093319185

Option 4 ID : 4410093319187

Q. Each of P, Q, R, S, T, X and Y has an exam on a different day of the week, starting from Monday and ending on Sunday of the same week. Only one person has an exam before P. Only two people have an exam between T and P. Y has an exam immediately after S. X has an exam immediately after Q. Only one person has an exam between Q and R. Who has an exam on Thursday?

Answers

☒ 1. R

☒ 2. X

☒ 3. S

☒ 4. Y

Question ID : 441009841623

Option 1 ID : 4410093319563

Option 2 ID : 4410093319561

Option 3 ID : 4410093319560

Option 4 ID : 4410093319562

Q. 80 is related to 5 following a certain logic. Following the same logic, 48 is related to 3. To which of the given options is 128 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 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. 7

☒ 2. 11

☒ 3. 15

☒ 4. 8

Question ID : 441009844576

Option 1 ID : 4410093331169

Option 2 ID : 4410093331168

Option 3 ID : 4410093331171

Option 4 ID : 4410093331170

Q. In the following number-pairs, the second number is obtained by applying 9 certain mathematical operation(s) to the first number. Which numbers should replace X and Y, so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

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

X : 63 :: 6 : Y

- Answers
- ☐ 1. X = 5, Y = 217
 - ☐ 2. X = 5, Y = 216
 - ☐ 3. X = 4, Y = 217
 - ☒ 4. X = 4, Y = 215

Question ID : 441009844614
Option 1 ID : 4410093331320
Option 2 ID : 4410093331322
Option 3 ID : 4410093331321
Option 4 ID : 4410093331323

Q. Navin starts from point A and drives 4 km towards the north. He then takes a 10 left turn, drives 2 km and stops at point B. Manoj starts from point X, which is 8 km east of point B, and drives 4 km towards the south. He then takes a left turn and drives 2 km to reach point Y. What is the shortest distance between point A and point Y? (All turns are 90-degree turns only.)

- Answers
- ☐ 1. 6 km
 - ☐ 2. 4 km
 - ☒ 3. 8 km
 - ☐ 4. 2 km

Question ID : 441009841533
Option 1 ID : 44100933319200
Option 2 ID : 44100933319202
Option 3 ID : 44100933319201
Option 4 ID : 44100933319203

Q. Two sets of numbers are given below. In each set of numbers, certain 11 mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

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

12 – 52 – 72 – 82
15 – 55 – 75 – 85

- A ns
- ☒ 1. 9 – 49 – 69 – 89
 - ☒ 2. 10 – 40 – 60 – 70
 - ☒ 3. 10 – 50 – 70 – 80
 - ☒ 4. 9 – 49 – 59 – 69

Question ID : 441009844671
Option 1 ID : 4410093331550
Option 2 ID : 4410093331548
Option 3 ID : 4410093331551
Option 4 ID : 4410093331549

Q. Based on the English alphabetical order, three of the following four letter-12 cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- A ns
- ☒ 1. QV-XT
 - ☒ 2. JO-QN
 - ☒ 3. LQ-SO
 - ☒ 4. EJ-LH

Question ID : 441009841566
Option 1 ID : 4410093319333
Option 2 ID : 4410093319334
Option 3 ID : 4410093319332
Option 4 ID : 4410093319335

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

13

26 , 64 , 39 , 55 , 52 , 46 , 65 , 37 ?

A ☒ 1. 86

ns

☒ 2. 91

☒ 3. 82

☒ 4. 78

Question ID : 441009844586

Option 1 ID : 4410093331210

Option 2 ID : 4410093331209

Option 3 ID : 4410093331211

Option 4 ID : 4410093331208

Q. In a certain code,

14 'look after are small' is coded as 'op ed sd ws',
'we are not the' is coded as 'qw sd cf gb',
'not the one to' is coded as 'cf gb hu ik', and
'not to thing after' is coded as 'cf ik xc ed'.
(All the codes are two-letter coded only.)

What is the possible code for 'small'?

A ☒ 1. Either 'ws' or 'sd'

ns

☒ 2. Either 'ed' or 'ws'

☒ 3. Either 'sd' or 'ed'

☒ 4. Either 'ws' or 'op'

Question ID : 441009840950

Option 1 ID : 4410093316871

Option 2 ID : 4410093316870

Option 3 ID : 4410093316869

Option 4 ID : 4410093316868

Q. What will come in place of the question mark (?) in the following equation if

15 '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$3015 \times 15 - 151 + 26 \div 5 = ?$

A ☒ 1. 101

ns

☒ 2. 202

☒ 3. 333

☒ 4. 222

Question ID : 441009844650

Option 1 ID : 4410093331466

Option 2 ID : 4410093331467

Option 3 ID : 4410093331465

Option 4 ID : 4410093331464

Q. Which of the given letter-clusters should replace # and % so that the pattern 16 and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: MCX :: WSX : %

- Answers
- ☒ 1. # = TAW, % = XUB
 - ☒ 2. # = QAZ, % = SUV
 - ☒ 3. # = QCL, % = SUZ
 - ☒ 4. # = TCW, % = XVH

Question ID : 441009841603
Option 1 ID : 4410093319481
Option 2 ID : 4410093319482
Option 3 ID : 4410093319483
Option 4 ID : 4410093319480

Q. This question is based on the following words.

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(Left) IFS KOP MIX OFT (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?

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

Question ID : 441009840933
Option 1 ID : 4410093316802
Option 2 ID : 4410093316800
Option 3 ID : 4410093316803
Option 4 ID : 4410093316801

Q. In the following series, only one letter-cluster is incorrect. Select the 18 INCORRECT letter-cluster.

EKQ JPV OUA TZF YEK DIP

- Answers
- ☒ 1. DIP
 - ☒ 2. YEK
 - ☒ 3. TZF
 - ☒ 4. OUA

Question ID : 441009841256
Option 1 ID : 4410093318092
Option 2 ID : 4410093318095
Option 3 ID : 4410093318094
Option 4 ID : 4410093318093

Q. Based on the English alphabetical order, three of the following four letter-19 clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

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

- Answers
- ☒ 1. MTP
 - ☒ 2. PWS
 - ☒ 3. RYU
 - ☒ 4. JQN

Question ID : 441009841455
Option 1 ID : 4410093318890
Option 2 ID : 4410093318889
Option 3 ID : 4410093318888
Option 4 ID : 4410093318891

Q. P, Q, R, S, E and F live on six different floors of the same building. The 20 lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6.

P lives on the topmost floor. Only three people live between P and E. R lives on a floor below E. F lives on an even-numbered floor. Q lives on an odd-numbered floor but not on floor number 5.

How many people live between S and E?

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

Question ID : 441009841479
Option 1 ID : 4410093318985
Option 2 ID : 4410093318987
Option 3 ID : 4410093318984
Option 4 ID : 4410093318986

Section : General Awareness

Q. Which of the following refers to the number of persons actually working and 1 does NOT include those who are willing to work but are not working?

- Answers
- ☒ 1. Workforce
 - ☒ 2. Employment
 - ☒ 3. Participation rate
 - ☒ 4. Labour supply

Question ID : 441009867399
Option 1 ID : 4410093422628
Option 2 ID : 4410093422627
Option 3 ID : 4410093422629
Option 4 ID : 4410093422630

Q. Which of the following crosses is used to explore the genotype of an organism?

- Answers
- ☒ 1. Dihybrid cross
 - ☒ 2. Trihybrid cross
 - ☒ 3. Back cross
 - ☒ 4. Test cross

Question ID : 441009891523
Option 1 ID : 4410093520072
Option 2 ID : 4410093520073
Option 3 ID : 4410093520074
Option 4 ID : 4410093520075

Q. A dynasty contemporary to the Guptas with whom the Guptas had 3 matrimonial relations and whose core region was modern Maharashtra and Madhya Pradesh was:

- Answers
- ☒ 1. Vakataka
 - ☒ 2. Paramara
 - ☒ 3. Kalaburgi
 - ☒ 4. Chalukyas of Badami

Question ID : 441009868344
Option 1 ID : 4410093426409
Option 2 ID : 4410093426408
Option 3 ID : 4410093426410
Option 4 ID : 4410093426407

Q. Xylem and phloem are collectively called _____ tissues.

- Answers
- ☒ 1. dividing
 - ☒ 2. vascular
 - ☒ 3. connective
 - ☒ 4. meristematic

Question ID : 441009891514
Option 1 ID : 4410093520037
Option 2 ID : 4410093520039
Option 3 ID : 4410093520036
Option 4 ID : 4410093520038

Q. Who is India's first female pitch curator, overseeing pitch preparation for the 5 first leg of the Women's Premier League in Bengaluru in February 2024?

A ns ☒ 1. Jacintha Kalyan

☐ 2. Mithali Raj

☐ 3. Anjum Chopra

☐ 4. Neetu David

Question ID : 441009704819

Option 1 ID : 4410092773307

Option 2 ID : 4410092773309

Option 3 ID : 4410092773308

Option 4 ID : 4410092773306

Q. Which writ is issued against a person who usurps a public office?

6 A ns ☒ 1. Quo-warranto

☐ 2. Habeas Corpus

☐ 3. Prohibition

☐ 4. Mandamus

Question ID : 441009870663

Option 1 ID : 4410093435607

Option 2 ID : 4410093435606

Option 3 ID : 4410093435604

Option 4 ID : 4410093435605

Q. Article 8 of the Constitution deals with citizenship rights of persons of Indian 7 origin residing _____.

A ns ☐ 1. in central Asia only

☐ 2. in southeast Asia only

☒ 3. outside India

☐ 4. in west Asia only

Question ID : 441009870641

Option 1 ID : 4410093435519

Option 2 ID : 4410093435516

Option 3 ID : 4410093435517

Option 4 ID : 4410093435518

Q. Who among the following led for the merger of the 'Khilafat movement' and 'Non-cooperation' movement?

- Ans
- ☒ 1. MA Ansari
 - ☒ 2. Mahatma Gandhi
 - ☒ 3. Abul Kalam Azad
 - ☒ 4. Shaukat Ali and Mohammad Ali

Question ID : 441009868275
Option 1 ID : 4410093426134
Option 2 ID : 4410093426131
Option 3 ID : 4410093426132
Option 4 ID : 4410093426133

Q. The _____ appoints the Regional Election Commissioners.

- Ans
- ☒ 1. President of India
 - ☒ 2. Vice President
 - ☒ 3. Chief Minister of a state
 - ☒ 4. Governor

Question ID : 441009870728
Option 1 ID : 4410093435867
Option 2 ID : 4410093435865
Option 3 ID : 4410093435864
Option 4 ID : 4410093435866

Q. As per Census of India 2011, in which of the following groups of states was the population density recorded less than 100 persons/km²?

- Ans
- ☒ 1. Arunachal Pradesh, Odisha and Sikkim
 - ☒ 2. Arunachal Pradesh, Mizoram and Himachal Pradesh
 - ☒ 3. Gujarat, Mizoram and Sikkim
 - ☒ 4. Arunachal Pradesh, Mizoram and Sikkim

Question ID : 441009867009
Option 1 ID : 4410093421069
Option 2 ID : 4410093421070
Option 3 ID : 4410093421071
Option 4 ID : 4410093421068

Q. Which of the following is NOT a tributary of the Ganga River?

11

- A ns
- ☒ 1. Gomti River
 - ☒ 2. Punpun River
 - ☒ 3. Jhelum River
 - ☒ 4. Falgu River

Question ID : 441009867018
Option 1 ID : 4410093421107
Option 2 ID : 4410093421105
Option 3 ID : 4410093421104
Option 4 ID : 4410093421106

Q. What is the aim of Prime Minister Narendra Modi's 'Panchamrit' pledge taken 12 at COP28?

12

- A ns
- ☒ 1. To achieve net-zero emissions by 2060
 - ☒ 2. To achieve net-zero emissions by 2050
 - ☒ 3. To achieve net-zero emissions by 2080
 - ☒ 4. To achieve net-zero emissions by 2070

Question ID : 441009704790
Option 1 ID : 4410092773191
Option 2 ID : 4410092773190
Option 3 ID : 4410092773193
Option 4 ID : 4410092773192

Q. Which of the following rivers is also known as Dakshin Ganga?

13

- A ns
- ☒ 1. Mahanadi
 - ☒ 2. Godavari
 - ☒ 3. Krishna
 - ☒ 4. Narmada

Question ID : 441009867046
Option 1 ID : 4410093421217
Option 2 ID : 4410093421216
Option 3 ID : 4410093421219
Option 4 ID : 4410093421218

Q. What is the name of the landing experiment conducted by ISRO for the 14 Pushpak Reusable Landing Vehicle?

- A ns
- ☒ 1. Vikram S
 - ☒ 2. RLV LEX
 - ☐ 3. Pragyan glide
 - ☐ 4. RLV TD-HEX

Question ID : 441009704802
Option 1 ID : 4410092773240
Option 2 ID : 4410092773238
Option 3 ID : 4410092773241
Option 4 ID : 4410092773239

Q. The Chapchar Kut festival, celebrated in Mizoram, marks the clearing of 15 forests for cultivation and is characterised by traditional dance performances. In which month is the Chapchar Kut festival celebrated?

- A ns
- ☐ 1. April
 - ☒ 2. March
 - ☐ 3. February
 - ☐ 4. January

Question ID : 441009363343
Option 1 ID : 4410091419629
Option 2 ID : 4410091419628
Option 3 ID : 4410091419627
Option 4 ID : 4410091419626

Q. Which official language was adopted for government purposes in the Union 16 Territory of Goa, Daman and Diu in 1987?

- A ns
- ☒ 1. Konkani
 - ☐ 2. Marathi
 - ☐ 3. Nissi
 - ☐ 4. Lepcha

Question ID : 441009232668
Option 1 ID : 441009909106
Option 2 ID : 441009909105
Option 3 ID : 441009909103
Option 4 ID : 441009909104

Q. Which instrument is NOT a part of India's monetary policy?

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- Answers
- ☒ 1. Cash Reserve Ratio (CRR)
 - ☒ 2. Bank Rate
 - ☒ 3. Open Market Operations
 - ☒ 4. Fiscal Deficit

Question ID : 44100987271

Option 1 ID : 441009346876

Option 2 ID : 441009346875

Option 3 ID : 441009346878

Option 4 ID : 441009346877

Q. Which of the following is becoming a common practice in the globalised era?

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- Answers
- ☒ 1. Outsourcing of work
 - ☒ 2. Increase in public employment opportunities
 - ☒ 3. Labour intensive technology
 - ☒ 4. Limited work opportunities

Question ID : 441009867423

Option 1 ID : 4410093422724

Option 2 ID : 4410093422726

Option 3 ID : 4410093422725

Option 4 ID : 4410093422723

Q. Who among the following Kings, according to the Aihole inscription, defeated Harshavardhana in the battle fought on the banks of river Narmada?

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- Answers
- ☒ 1. Mahendravarman
 - ☒ 2. Pulakeshin I
 - ☒ 3. Narasimhavarman I
 - ☒ 4. Pulakeshin II

Question ID : 441009868332

Option 1 ID : 4410093426361

Option 2 ID : 4410093426359

Option 3 ID : 4410093426360

Option 4 ID : 4410093426362

Q. The festival of Gangaur, dedicated to goddess Gauri, is predominantly celebrated in _____.

- Answers
- ☒ 1. Rajasthan
 - ☐ 2. Bihar
 - ☐ 3. Kerala
 - ☐ 4. Uttar Pradesh

Question ID : 441009300569
Option 1 ID : 4410091169372
Option 2 ID : 4410091169375
Option 3 ID : 4410091169373
Option 4 ID : 4410091169374

Section : Numerical Aptitude and Data Interpretation

Q. The average age of 35 students of a class is 12 years. When 15 new students are admitted to the class, the average is increased by 0.6 years. The average age of the 15 new students is:

- Answers
- ☐ 1. 11 years
 - ☐ 2. 13 years
 - ☐ 3. 12 years
 - ☒ 4. 14 years

Question ID : 441009836307
Option 1 ID : 4410093298347
Option 2 ID : 4410093298345
Option 3 ID : 4410093298346
Option 4 ID : 4410093298344

Q. The incomes of A and B are in the ratio 5 : 3, their expenditures are in the ratio 8 : 5 and their savings are in the ratio 2 : 1. If their total savings of a year is ₹3,600, find the monthly income of A.

- Answers
- ☐ 1. ₹1,500
 - ☒ 2. ₹1,000
 - ☐ 3. ₹2,000
 - ☐ 4. ₹800

Question ID : 441009836453
Option 1 ID : 4410093298930
Option 2 ID : 4410093298929
Option 3 ID : 4410093298931
Option 4 ID : 4410093298928

Q. The average of 13 numbers is 8. If each number is multiplied by 5, then what will the new average be:

A ☒ 1. 40
ns

☒ 2. 5

☒ 3. 13

☒ 4. 8

Question ID : 441009836160

Option 1 ID : 4410093297756

Option 2 ID : 4410093297758

Option 3 ID : 4410093297759

Option 4 ID : 4410093297757

Q. The price of a commodity has increased by 24%. By what per cent (rounded off to the nearest integer) should it be decreased to restore the original price?

A ☒ 1. 19%
ns

☒ 2. 24%

☒ 3. 16%

☒ 4. 22%

Question ID : 441009836238

Option 1 ID : 4410093298069

Option 2 ID : 4410093298068

Option 3 ID : 4410093298071

Option 4 ID : 4410093298070

Q. An empty cistern can be filled by three pipes A, B and C in 15 minutes, 20 minutes and 25 minutes, respectively. A fourth pipe can empty the full cistern in 12 minutes. If all the pipes are turned on simultaneously, in how much time (in minutes to the nearest integer) will the empty cistern be full?

A ☒ 1. 15
ns

☒ 2. 12

☒ 3. 13

☒ 4. 14

Question ID : 441009836462

Option 1 ID : 4410093298966

Option 2 ID : 4410093298967

Option 3 ID : 4410093298965

Option 4 ID : 4410093298964

Q. 6 The volume of a solid sphere is $3054\frac{19}{21} \text{ cm}^3$. It is melted and

What is the radius of original large sphere, and how many suc

[Use $\pi = \frac{22}{7}$]

Ans ☒ 1. 9 cm ; 15

☐ 2. 10 cm ; 14

☐ 3. 9 cm ; 16

☐ 4. 8 cm ; 15

Question ID : 441009836771

Option 1 ID : 4410093300203

Option 2 ID : 4410093300200

Option 3 ID : 4410093300201

Option 4 ID : 4410093300202

Q. 7 If the cost price of an item is equal to 96% of its selling price, then what is the profit percentage? (Rounded up to two decimal places)

Ans ☐ 1. 5.34%

☐ 2. 4.32%

☐ 3. 3.43%

☒ 4. 4.17%

Question ID : 441009836374

Option 1 ID : 4410093298615

Option 2 ID : 4410093298613

Option 3 ID : 4410093298614

Option 4 ID : 4410093298612

Q. 8 A shopkeeper marks his chairs 22.5% above the cost price and allows a 12% discount for cash purchases. Find the shopkeeper's profit percentage if he sells for cash.

Ans ☐ 1. 4.8%

☐ 2. 5.9%

☒ 3. 7.8%

☐ 4. 6.3%

Question ID : 441009836207

Option 1 ID : 4410093297944

Option 2 ID : 4410093297945

Option 3 ID : 4410093297947

Option 4 ID : 4410093297946

Q. At what rate (in percentage) per annum on simple interest will a sum of 9 money be 2 times of itself in 8 years?

- Answers
- ☒ 1. 25%
 - ☒ 2. 11.5%
 - ☒ 3. 24%
 - ☒ 4. 12.5%

Question ID : 441009836121
Option 1 ID : 4410093297601
Option 2 ID : 4410093297602
Option 3 ID : 4410093297603
Option 4 ID : 4410093297600

Q. A train goes from A to B at a speed of 6 km/hr and returns from B to A by the same route at 12 km/hr. The average speed (in km/hr) of the train during the two-way journey is:

- Answers
- ☒ 1. 7
 - ☒ 2. 6
 - ☒ 3. 8
 - ☒ 4. 11

Question ID : 441009835634
Option 1 ID : 4410093295653
Option 2 ID : 4410093295655
Option 3 ID : 4410093295652
Option 4 ID : 4410093295654

Q. A person spends 25% of his salary on rent, 30% on food and 25% on other 11 expenses. If he saves ₹350, find his salary.

- Answers
- ☒ 1. ₹1,550
 - ☒ 2. ₹1,750
 - ☒ 3. ₹1,570
 - ☒ 4. ₹1,770

Question ID : 441009834573
Option 1 ID : 4410093291411
Option 2 ID : 4410093291409
Option 3 ID : 4410093291410
Option 4 ID : 4410093291408

Q. If A is the largest number less than 12345 that is divisible by each of the 12 numbers 3, 5, 7 and 8, then the sum of the digits of A is:

A ☒ 1. 15

ns

☐ 2. 18

☐ 3. 22

☐ 4. 16

Question ID : 441009836464

Option 1 ID : 4410093298972

Option 2 ID : 4410093298973

Option 3 ID : 4410093298974

Option 4 ID : 4410093298975

Q. A hemispherical bowl of internal radius 12 cm is full of liquid. This liquid is to be filled into cylindrical container of diameter 6 cm and height 4 cm. Find the number of containers that are necessary to empty the bowl.

A ☐ 1. 40

ns

☒ 2. 32

☐ 3. 30

☐ 4. 20

Question ID : 441009836732

Option 1 ID : 4410093300047

Option 2 ID : 4410093300046

Option 3 ID : 4410093300044

Option 4 ID : 4410093300045

Q. Pravesh and Reena can complete a work in 18 days and 27 days, 14 respectively. Due to some reason, they worked on alternate days, starting with Pravesh. In how many days will the whole work be completed?

A ☐ 1. $21\frac{1}{3}$

ns

☐ 2. $19\frac{1}{4}$

☐ 3. $11\frac{1}{2}$

☒ 4. $21\frac{1}{2}$

Question ID : 441009836290

Option 1 ID : 4410093298277

Option 2 ID : 4410093298276

Option 3 ID : 4410093298278

Option 4 ID : 4410093298279

Q. The ratio of the number of boys to that of girls in a class of 120 students is 5 : 16. How many more girls should join the class so that the ratio becomes 5 : 3?

Ans ☒ 1. 40

☐ 2. 6

☐ 3. 12

☐ 4. 9

Question ID : 441009836311

Option 1 ID : 4410093298362

Option 2 ID : 4410093298360

Option 3 ID : 4410093298363

Option 4 ID : 4410093298361

Q. In a race of 400 m, the ratio of speeds of two contestants Amit and Aman is 7 : 16. If Amit has a head start of 190 m, then Amit wins by:

Ans ☒ 1. 130 m

☐ 2. 270 m

☐ 3. 210 m

☐ 4. 190 m

Question ID : 441009836332

Option 1 ID : 4410093298446

Option 2 ID : 4410093298447

Option 3 ID : 4410093298444

Option 4 ID : 4410093298445

Q. A shopkeeper sold a book at a loss of 6%. If the selling price had been 17 increased by ₹456, there would have been a gain of 18%. What was the cost price (in ₹) of the book?

Ans ☐ 1. 1,910

☐ 2. 1,905

☐ 3. 1,895

☒ 4. 1,900

Question ID : 441009835508

Option 1 ID : 4410093295151

Option 2 ID : 4410093295150

Option 3 ID : 4410093295149

Option 4 ID : 4410093295148

Q. Three numbers are in the ratio 1 : 2 : 3 and the sum of their cubes is 333396.
18 The greatest of the three numbers is:

- A ns
- ☒ 1. 84
 - ☒ 2. 63
 - ☒ 3. 42
 - ☒ 4. 21

Question ID : 441009836443
Option 1 ID : 4410093298891
Option 2 ID : 4410093298890
Option 3 ID : 4410093298889
Option 4 ID : 4410093298888

Q. The population of a town increases every year by 8%. If its present
19 population is 78,125, then after 3 years it will be:

- A ns
- ☒ 1. 87,880
 - ☒ 2. 69,120
 - ☒ 3. 98,415
 - ☒ 4. 60,835

Question ID : 441009836421
Option 1 ID : 4410093298801
Option 2 ID : 4410093298803
Option 3 ID : 4410093298802
Option 4 ID : 4410093298800

Q. Study the following graph and answer the question that follows.

20

The following line graph represents the rainfall (in mm) in a city during five months.



What is the average rainfall (in cm) in the city during these five months?

Ans

☒ 1. 20.6

☒ 2. 20.0

☒ 3. 20.2

☒ 4. 20.4

Question ID : 441009836315

Option 1 ID : 4410093298379

Option 2 ID : 4410093298376

Option 3 ID : 4410093298377

Option 4 ID : 4410093298378

Section : English Language and Comprehension

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

1

The scientist elaborated _____ his groundbreaking theory during the international conference.

Ans

☒ 1. across

☒ 2. on

☒ 3. over

☒ 4. about

Question ID : 44100961700

Option 1 ID : 441009245865

Option 2 ID : 441009245862

Option 3 ID : 441009245863

Option 4 ID : 441009245864

Q. Identify the correct spelling of the INCORRECTLY spelt word in the given 2 sentence.

The idea of using plastic tubes, or cateters, to insert a graft directly into the aorta is being developed.

- Answers
- ☒ 1. aorota
 - ☒ 2. tubs
 - ☒ 3. catheters
 - ☒ 4. craft

Question ID : 4410096034
Option 1 ID : 44100923916
Option 2 ID : 44100923913
Option 3 ID : 44100923914
Option 4 ID : 44100923915

Q. Select the option that can be used as a one-word substitute for the given 3 group of words.

An extreme fear of dogs

- Answers
- ☒ 1. Zoophobia
 - ☒ 2. Ornithophobia
 - ☒ 3. Cynophobia
 - ☒ 4. Arachnophobia

Question ID : 44100983446
Option 1 ID : 441009331546
Option 2 ID : 441009331547
Option 3 ID : 441009331548
Option 4 ID : 441009331549

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

4
Let's go for a walk, _____?

- Answers
- ☒ 1. shall we
 - ☒ 2. are we
 - ☒ 3. can we
 - ☒ 4. should we

Question ID : 441009842766
Option 1 ID : 4410093324132
Option 2 ID : 4410093324135
Option 3 ID : 4410093324134
Option 4 ID : 4410093324133

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

5

Although the tempestuous history of imperialism has left _____ marks on universal cultures, exertions at attentive reconciliation are still sprouting.

- Answers
- ☒ 1. meager
 - ☒ 2. indelible
 - ☒ 3. marginal
 - ☒ 4. scanty

Question ID : 44100963626
Option 1 ID : 441009253518
Option 2 ID : 441009253519
Option 3 ID : 441009253517
Option 4 ID : 441009253520

Q. Sentences of a paragraph are given below in jumbled order. Arrange the 6 sentences in the correct order to form a meaningful and coherent paragraph.

- A. Indeed it is precisely because such violations happen frequently that we need a constitutional mechanism to prevent them from happening.
- B. The Indian Constitution guarantees Fundamental Rights that are based on these secular principles.
- C. The Indian State is secular and works in various ways to prevent religious domination.
- D. However, this is not to say that there is no violation of these rights in Indian society.

- Answers
- ☒ 1. ACDB
 - ☒ 2. DBCA
 - ☒ 3. BDAC
 - ☒ 4. CBDA

Question ID : 441009837880
Option 1 ID : 4410093304612
Option 2 ID : 4410093304615
Option 3 ID : 4410093304613
Option 4 ID : 4410093304614

Q. Sentences of a paragraph are given below in jumbled order. Arrange the 7 sentences in the correct order to form a meaningful and coherent paragraph.

- A. The need for creating and identifying with a tradition of our own comes from a deep sense of insecurity and lack of fulfilment.
- B. Compulsive means not conducive for consciousness.
- C. If you go to any new place, within ten minutes you form a little tradition of your own and hang on to that.
- D. If you have a tradition, you will repeat the same things again and again.
- E. Repetitive means in some way compulsive.

Ans ☒ 1. BADCE

☒ 2. CADEB

☒ 3. BEDAC

☒ 4. DACEB

Question ID : 441009837879
Option 1 ID : 4410093304611
Option 2 ID : 4410093304608
Option 3 ID : 4410093304609
Option 4 ID : 4410093304610

Q. Select the correct question tag to fill in the blank.

8 You wouldn't mind helping me, _____?

Ans ☒ 1. wouldn't you mind

☒ 2. wouldn't you

☒ 3. will you not

☒ 4. would you

Question ID : 441009842762
Option 1 ID : 4410093324119
Option 2 ID : 4410093324117
Option 3 ID : 4410093324118
Option 4 ID : 4410093324116

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

9 The new regulations demand that every applicant _____ a detailed background check.

Ans ☒ 1. undergone

☒ 2. has undergone

☒ 3. undergoes

☒ 4. undergo

Question ID : 44100967575
Option 1 ID : 441009269077
Option 2 ID : 441009269076
Option 3 ID : 441009269075
Option 4 ID : 441009269074

Q. Select the option that rectifies the underlined INCORRECTLY spelt word in 10 the given sentence.

The magician's stunning legerdomain left the audience in awe as he made a coin vanish into thin air.

- Answers
- ☒ 1. legerdmain
 - ☐ 2. lagerdemian
 - ☐ 3. lagerdemein
 - ☐ 4. legerdamain

Question ID : 4410096431
Option 1 ID : 44100925477
Option 2 ID : 44100925478
Option 3 ID : 44100925476
Option 4 ID : 44100925475

Q. Select the most appropriate idiom that can replace the underlined segment in 11 the given sentence.

There is no point convincing him, it is not going to be of any use.

- Answers
- ☐ 1. like sitting on a fence
 - ☐ 2. once in a blue moon
 - ☒ 3. like flogging a dead horse
 - ☐ 4. a piece of cake

Question ID : 441009845676
Option 1 ID : 4410093335576
Option 2 ID : 4410093335578
Option 3 ID : 4410093335577
Option 4 ID : 4410093335579

Q. Select the most appropriate ANTONYM of the underlined word to fill in the 12 blank.

Parineeti: The terrain was arable and impeccable for agronomy.

Brinda: Unluckily, much of it has turned _____ over time.

- Answers
- ☐ 1. rustical
 - ☒ 2. stark
 - ☐ 3. fecund
 - ☐ 4. georgic

Question ID : 44100989785
Option 1 ID : 441009357310
Option 2 ID : 441009357312
Option 3 ID : 441009357311
Option 4 ID : 441009357309

Q. Select the most appropriate option to substitute the underlined word and 13 complete the idiom in the given sentence.

You have taken the wind out of my nails.

- Answers
- ☒ 1. sale
 - ☒ 2. sails
 - ☒ 3. mail
 - ☒ 4. wails

Question ID : 441009845714
Option 1 ID : 4410093335730
Option 2 ID : 4410093335729
Option 3 ID : 4410093335731
Option 4 ID : 4410093335728

Q. Select the option that can be used as a one-word substitute for the given 14 group of words.

Study of caves

- Answers
- ☒ 1. Palynology
 - ☒ 2. Speleology
 - ☒ 3. Proteomics
 - ☒ 4. Lichenology

Question ID : 44100979608
Option 1 ID : 441009316232
Option 2 ID : 441009316231
Option 3 ID : 441009316233
Option 4 ID : 441009316230

Q. Read the conversation carefully and select the most appropriate synonym of 15 the bracketed word from the given options to fill in the blank.

Aman: The food supplies for the flood victims seem (meagre).
Riya: Yes, they are completely _____ to meet everyone's needs.

- Answers
- ☒ 1. profuse
 - ☒ 2. insufficient
 - ☒ 3. opulent
 - ☒ 4. copious

Question ID : 44100993563
Option 1 ID : 441009372192
Option 2 ID : 441009372191
Option 3 ID : 441009372189
Option 4 ID : 441009372190

Comprehension:

Read the given passage and answer the questions that follow.

The United States Presidential Election, held every four years, is a political event that commands global attention. The 2024 election was particularly significant, not only because of the candidates but also due to its implications for the future of American democracy. Initially expected to be a rematch between Joe Biden and Donald Trump, the election took an unexpected turn when Biden withdrew, making way for Vice President Kamala Harris as the Democratic candidate. This change heightened international interest, as the election became more than just a political contest — it was a defining moment for America's identity. Historically, US presidential elections featured two major candidates with somewhat overlapping ideologies, but this changed dramatically in 2016 with the rise of Donald Trump. His unconventional, populist approach reshaped the Republican Party, emphasising nationalism, strong immigration policies, and economic protectionism. His presidency, marked by controversy and significant policy shifts, left a lasting impact, particularly through his appointments to the Supreme Court, which led to the overturning of *Roe vs. Wade* in 2022. Despite losing the popular vote in 2016, Trump secured the presidency through the electoral college. In 2020, his loss to Biden was followed by unprecedented post-election turmoil, culminating in the January 6th Capitol riot. Yet, Trump remained a dominant political force, setting the stage for another highly charged election in 2024. The contest between Trump and Harris symbolised starkly different visions for America's future — divisive vs. unifying, nationalist vs. globalist, conservative vs. progressive. Unlike past elections, which often reflected nuanced policy differences, the 2024 election was a battle over fundamental democratic values. As the world watched, the outcome carried implications not just for the US, but for global politics as well.

SubQuestion No : 16

Q. How is the passage structured?

16

- Answers
- ☒ 1. It compares different political candidates and their leadership styles.
 - ☒ 2. It presents an argument for or against a political ideology.
 - ☒ 3. It discusses the changing nature of US elections and their global significance.
 - ☒ 4. It narrates a chronological history of US Presidential Elections.

Question ID : 44100981457

Option 1 ID : 441009323432

Option 2 ID : 441009323430

Option 3 ID : 441009323433

Option 4 ID : 441009323431

Comprehension:

Read the given passage and answer the questions that follow.

The United States Presidential Election, held every four years, is a political event that commands global attention. The 2024 election was particularly significant, not only because of the candidates but also due to its implications for the future of American democracy. Initially expected to be a rematch between Joe Biden and Donald Trump, the election took an unexpected turn when Biden withdrew, making way for Vice President Kamala Harris as the Democratic candidate. This change heightened international interest, as the election became more than just a political contest — it was a defining moment for America's identity. Historically, US presidential elections featured two major candidates with somewhat overlapping ideologies, but this changed dramatically in 2016 with the rise of Donald Trump. His unconventional, populist approach reshaped the Republican Party, emphasising nationalism, strong immigration policies, and economic protectionism. His presidency, marked by controversy and significant policy shifts, left a lasting impact, particularly through his appointments to the Supreme Court, which led to the overturning of *Roe vs. Wade* in 2022. Despite losing the popular vote in 2016, Trump secured the presidency through the electoral college. In 2020, his loss to Biden was followed by unprecedented post-election turmoil, culminating in the January 6th Capitol riot. Yet, Trump remained a dominant political force, setting the stage for another highly charged election in 2024. The contest between Trump and Harris symbolised starkly different visions for America's future — divisive vs. unifying, nationalist vs. globalist, conservative vs. progressive. Unlike past elections, which often reflected nuanced policy differences, the 2024 election was a battle over fundamental democratic values. As the world watched, the outcome carried implications not just for the US, but for global politics as well.

SubQuestion No : 17

Q. What is the most appropriate synonym of the word 'dominant' in the phrase 17 'Trump remained a dominant political force'?

- A ns
- ☒ 1. Marginal
 - ☒ 2. Passive
 - ☒ 3. Influential
 - ☒ 4. Insignificant

Question ID : 44100981458

Option 1 ID : 441009323434

Option 2 ID : 441009323437

Option 3 ID : 441009323435

Option 4 ID : 441009323436

Comprehension:

Read the given passage and answer the questions that follow.

The United States Presidential Election, held every four years, is a political event that commands global attention. The 2024 election was particularly significant, not only because of the candidates but also due to its implications for the future of American democracy. Initially expected to be a rematch between Joe Biden and Donald Trump, the election took an unexpected turn when Biden withdrew, making way for Vice President Kamala Harris as the Democratic candidate. This change heightened international interest, as the election became more than just a political contest — it was a defining moment for America's identity. Historically, US presidential elections featured two major candidates with somewhat overlapping ideologies, but this changed dramatically in 2016 with the rise of Donald Trump. His unconventional, populist approach reshaped the Republican Party, emphasising nationalism, strong immigration policies, and economic protectionism. His presidency, marked by controversy and significant policy shifts, left a lasting impact, particularly through his appointments to the Supreme Court, which led to the overturning of Roe vs. Wade in 2022. Despite losing the popular vote in 2016, Trump secured the presidency through the electoral college. In 2020, his loss to Biden was followed by unprecedented post-election turmoil, culminating in the January 6th Capitol riot. Yet, Trump remained a dominant political force, setting the stage for another highly charged election in 2024.

The contest between Trump and Harris symbolised starkly different visions for America's future — divisive vs. unifying, nationalist vs. globalist, conservative vs. progressive. Unlike past elections, which often reflected nuanced policy differences, the 2024 election was a battle over fundamental democratic values. As the world watched, the outcome carried implications not just for the US, but for global politics as well.

SubQuestion No : 18

Q. What is the primary focus of the passage?

18

- A ns
- ☒ 1. The evolution of the US Presidential Election and its significance in 2024
 - ☐ 2. The influence of social media on American politics
 - ☐ 3. The impact of the Supreme Court on US elections
 - ☐ 4. The ideological similarities between Republicans and Democrats

Question ID : 44100981455

Option 1 ID : 441009323424

Option 2 ID : 441009323425

Option 3 ID : 441009323422

Option 4 ID : 441009323423

Comprehension:

Read the given passage and answer the questions that follow.

The United States Presidential Election, held every four years, is a political event that commands global attention. The 2024 election was particularly significant, not only because of the candidates but also due to its implications for the future of American democracy. Initially expected to be a rematch between Joe Biden and Donald Trump, the election took an unexpected turn when Biden withdrew, making way for Vice President Kamala Harris as the Democratic candidate. This change heightened international interest, as the election became more than just a political contest — it was a defining moment for America's identity. Historically, US presidential elections featured two major candidates with somewhat overlapping ideologies, but this changed dramatically in 2016 with the rise of Donald Trump. His unconventional, populist approach reshaped the Republican Party, emphasising nationalism, strong immigration policies, and economic protectionism. His presidency, marked by controversy and significant policy shifts, left a lasting impact, particularly through his appointments to the Supreme Court, which led to the overturning of *Roe vs. Wade* in 2022. Despite losing the popular vote in 2016, Trump secured the presidency through the electoral college. In 2020, his loss to Biden was followed by unprecedented post-election turmoil, culminating in the January 6th Capitol riot. Yet, Trump remained a dominant political force, setting the stage for another highly charged election in 2024. The contest between Trump and Harris symbolised starkly different visions for America's future — divisive vs. unifying, nationalist vs. globalist, conservative vs. progressive. Unlike past elections, which often reflected nuanced policy differences, the 2024 election was a battle over fundamental democratic values. As the world watched, the outcome carried implications not just for the US, but for global politics as well.

SubQuestion No : 19

Q. Who replaced Joe Biden as the Democratic candidate in the 2024 US Presidential Election?

- A ns
- ☒ 1. Kamala Harris
 - ☐ 2. Pete Buttigieg
 - ☐ 3. Bernie Sanders
 - ☐ 4. Elizabeth Warren

Question ID : 44100981454

Option 1 ID : 441009323419

Option 2 ID : 441009323420

Option 3 ID : 441009323418

Option 4 ID : 441009323421

Comprehension:

Read the given passage and answer the questions that follow.

The United States Presidential Election, held every four years, is a political event that commands global attention. The 2024 election was particularly significant, not only because of the candidates but also due to its implications for the future of American democracy. Initially expected to be a rematch between Joe Biden and Donald Trump, the election took an unexpected turn when Biden withdrew, making way for Vice President Kamala Harris as the Democratic candidate. This change heightened international interest, as the election became more than just a political contest — it was a defining moment for America's identity. Historically, US presidential elections featured two major candidates with somewhat overlapping ideologies, but this changed dramatically in 2016 with the rise of Donald Trump. His unconventional, populist approach reshaped the Republican Party, emphasising nationalism, strong immigration policies, and economic protectionism. His presidency, marked by controversy and significant policy shifts, left a lasting impact, particularly through his appointments to the Supreme Court, which led to the overturning of *Roe vs. Wade* in 2022. Despite losing the popular vote in 2016, Trump secured the presidency through the electoral college. In 2020, his loss to Biden was followed by unprecedented post-election turmoil, culminating in the January 6th Capitol riot. Yet, Trump remained a dominant political force, setting the stage for another highly charged election in 2024. The contest between Trump and Harris symbolised starkly different visions for America's future — divisive vs. unifying, nationalist vs. globalist, conservative vs. progressive. Unlike past elections, which often reflected nuanced policy differences, the 2024 election was a battle over fundamental democratic values. As the world watched, the outcome carried implications not just for the US, but for global politics as well.

SubQuestion No : 20

Q. Which of the following titles best captures the essence of the passage?

20

- A ns
- ☒ 1. The Transformation of US Presidential Elections
 - ☐ 2. The Electoral College: A Flawed System
 - ☐ 3. How Social Media Shapes Political Campaigns
 - ☐ 4. The Rise and Fall of American Democracy

Question ID : 44100981456

Option 1 ID : 441009323426

Option 2 ID : 441009323428

Option 3 ID : 441009323429

Option 4 ID : 441009323427

Section : Hindi Language and Comprehension

Q. निम्नलिखित वाक्य को कारक द्वारा पूर्ण करें।

1 इस पिंजरे ____ कोई अच्छी जगह ढूँढ़ो जहाँ इसे रख सकें।

Ans ☒ 1. के लिए

☐ 2. आह!

☐ 3. को

☐ 4. द्वारा

Question ID : 441009837151

Option 1 ID : 4410093301727

Option 2 ID : 4410093301726

Option 3 ID : 4410093301724

Option 4 ID : 4410093301725

Q. वाक्य क्रम में लिखिए-

2 हैं और कुछ संदिग्ध हैं(क)/साहित्यिक सामग्री प्राप्त है(ख)/ इस काल की जो(ग)/ उसमें कुछ तो असंदिग्ध(घ)।

Ans ☒ 1. ग ख घ क

☐ 2. ख क घ ग

☐ 3. क ख ग घ

☐ 4. घ क ग ख

Question ID : 441009842035

Option 1 ID : 4410093321210

Option 2 ID : 4410093321211

Option 3 ID : 4410093321208

Option 4 ID : 4410093321209

Q. 'जो व्यक्ति ठीक समय पर तुरन्त किसी बात या युक्ति को सोच ले' वाक्यांश के लिए उपयुक्त शब्द होगा-

3

Ans ☐ 1. सर्वशास्त्रज्ञाता

☐ 2. दूरदर्शी

☐ 3. मर्मज्ञ

☒ 4. प्रत्युत्पन्नमति

Question ID : 441009842132

Option 1 ID : 4410093321597

Option 2 ID : 4410093321596

Option 3 ID : 4410093321598

Option 4 ID : 4410093321599

Q. वाक्य क्रम में लिखिए-

4 को देखा(अ/और वीरानी (ब/ने अर्दली की आँखों की मायूसी(स/अदीब(द।

Answers ☒ 1. द स ब अ

☒ 2. ब स अ द

☒ 3. स ब अ द

☒ 4. अ ब स द

Question ID : 441009842031

Option 1 ID : 4410093321192

Option 2 ID : 4410093321195

Option 3 ID : 4410093321193

Option 4 ID : 4410093321194

Q. निम्नलिखित वाक्य को कारक द्वारा पूर्ण करें।

5 अब मैं क्या बताऊँ कि चोर कितना सामान चुरा कर ले गए, _____ मेरी बेटी का सारा जेवर भी ले गए।

Answers ☒ 1. जब

☒ 2. वो

☒ 3. हाय!

☒ 4. सुनो

Question ID : 441009837144

Option 1 ID : 4410093301697

Option 2 ID : 4410093301699

Option 3 ID : 4410093301696

Option 4 ID : 4410093301698

Q. निम्नलिखित वाक्य में रेखांकित शब्द के स्थान पर कोई अन्य सही पर्यायवाची शब्द दिए गए विकल्पों में से

6 चुनिए-

ये कोंपले मन में आशा का संचार करती हैं।

Answers ☒ 1. परिधि

☒ 2. नई पत्ती

☒ 3. कली

☒ 4. फूल

Question ID : 441009843851

Option 1 ID : 4410093328272

Option 2 ID : 4410093328275

Option 3 ID : 4410093328274

Option 4 ID : 4410093328273

Q. वर्तनी की दृष्टि से दिए गए वाक्य के किस अंश में त्रुटि है ?
7 रीतिकाल में श्रंगारिक कविता बहुतायत में रची गयी।

- Answers
- ☒ 1. बहुतायत में
 - ☒ 2. रीतिकाल में
 - ☒ 3. रची गयी।
 - ☒ 4. श्रंगारिक कविता

Question ID : 441009843888
Option 1 ID : 4410093328422
Option 2 ID : 4410093328420
Option 3 ID : 4410093328423
Option 4 ID : 4410093328421

Q. निम्नलिखित वाक्य को कारक द्वारा पूर्ण करें।
8 तुम उसे नैना _____ मिलने से नहीं रोक सकते।

- Answers
- ☒ 1. से
 - ☒ 2. द्वारा
 - ☒ 3. की
 - ☒ 4. को

Question ID : 441009837140
Option 1 ID : 4410093301680
Option 2 ID : 4410093301683
Option 3 ID : 4410093301682
Option 4 ID : 4410093301681

Q. 'चंद्रमा' के पर्याय से दिए गए वाक्य का रिक्त स्थान पूर्ण करें--
9 रात के काले आकाश पर चमकता अत्यंत सुंदर प्रतीत होता है।

- Answers
- ☒ 1. भास्कर
 - ☒ 2. विभाकर
 - ☒ 3. निशाचर
 - ☒ 4. नक्षत्र

Question ID : 441009843891
Option 1 ID : 4410093328433
Option 2 ID : 4410093328435
Option 3 ID : 4410093328432
Option 4 ID : 4410093328434

Q. 'जो मोक्ष चाहता हो' वाक्यांश के लिए उपयुक्त शब्द होगा-

10

Ans

- ☒ 1. मुमुक्षु
- ☐ 2. जिगीषा
- ☐ 3. बुभुक्षा
- ☐ 4. सव्यसाची

Question ID : 441009842136

Option 1 ID : 4410093321615

Option 2 ID : 4410093321613

Option 3 ID : 4410093321612

Option 4 ID : 4410093321614

Q. _____ कपड़े से मेरी कमीज बन जाएगी। प्रस्तुत रिक्त स्थान की पूर्ति निश्चित परिमाणवाचक विशेषण से कीजिए -

Ans

- ☐ 1. थोड़े
- ☐ 2. कुछ
- ☐ 3. अनेक
- ☒ 4. दो मीटर

Question ID : 441009837251

Option 1 ID : 4410093302124

Option 2 ID : 4410093302125

Option 3 ID : 4410093302127

Option 4 ID : 4410093302126

Q. "विद्यार्थी को हमेशा समय-सरिणी बनाकर पढ़ाई करनी चाहिए " वाक्य में अशुद्ध भाग का चयन कीजिए

12

Ans

- ☐ 1. विद्यार्थी को हमेशा
- ☒ 2. समय-सरिणी
- ☐ 3. बनाकर पढ़ाई
- ☐ 4. करनी चाहिए ।

Question ID : 441009843951

Option 1 ID : 4410093328672

Option 2 ID : 4410093328673

Option 3 ID : 4410093328674

Option 4 ID : 4410093328675

Q. रिया _____ खाती है। - रिक्त स्थान के लिए उचित क्रिया-विशेषण का चयन कीजिए-

13

A ns ☒ 1. जितना

☒ 2. लगभग

☒ 3. मत

☒ 4. कम

Question ID : 441009837257

Option 1 ID : 4410093302149

Option 2 ID : 4410093302148

Option 3 ID : 4410093302151

Option 4 ID : 4410093302150

Q. निम्नलिखित में से कौन-सा मुहावरा अपने अर्थ से सुमेलित है ?

14

A ns ☒ 1. नौ – दो ग्यारह होना – तितर – बितर होना

☒ 2. हाँथ पर सरसों जमाना – कठिन कार्य को शीघ्र करना

☒ 3. चार चाँद लगाना – सबसे परे रहना

☒ 4. दाल में काला होना – कभी दिखाई न देना

Question ID : 441009844010

Option 1 ID : 4410093328909

Option 2 ID : 4410093328908

Option 3 ID : 4410093328910

Option 4 ID : 4410093328911

Q. 'गाँछ में कटहल, ओठ में तेल'

15 उपर्युक्त लोकोक्ति का क्या आशय है?

A ns ☒ 1. काम होने से पहले ही फल की इच्छा करना

☒ 2. दोनों ओर से लाभ ही लाभ होना

☒ 3. दोष किसी का, दंड किसी और को मिलना

☒ 4. वास्तविकता से दूर होना

Question ID : 441009843994

Option 1 ID : 4410093328844

Option 2 ID : 4410093328845

Option 3 ID : 4410093328846

Option 4 ID : 4410093328847

Comprehension:

गद्यांश को पढ़कर नीचे दिए गये प्रश्नों का उत्तर दीजिए।

आगरा धार्मिक दृष्टि से भी महत्वपूर्ण है। आये दिन यहाँ धार्मिक आयोजन होते रहते हैं। यहाँ की 'रामबरात' अपनी भव्यता के लिए प्रसिद्ध है। आगरा के चारों कोनों पर- कैलाश, पृथ्वीनाथ, राजेश्वर और बलकेश्वर महादेवजी के प्राचीन मंदिर हैं तथा नगर के मध्य में मनकामेश्वर महादेव का मन्दिर है। शिवभक्त प्रत्येक सोमवार को मनकामेश्वर महादेव के दर्शन कर दीपक जलाते हैं। श्रावण के चारों सोमवारों को क्रमशः इन मन्दिरों पर मेला लगता है तथा श्रावण के दूसरे सोमवार को शिवभक्त इन चारों मन्दिरों की परिक्रमा लगाते हैं। इस प्रकार पूरे आगरा नगर की परिक्रमा लग जाती है। इस समय शिवभक्तों की भक्ति भावना देखते ही बनती है। हमें गर्व है कि हम ऐतिहासिक नगर आगरा में निवास करते हैं। आगरा नगर देश में ही नहीं विदेशों में भी प्रसिद्ध है। प्रतिदिन असंख्य देशी-विदेशी पर्यटक यहाँ आते हैं। इनको आकर्षित करने के लिए हमें ध्यान रखना होगा - 'ग्रीन आगरा, क्लीन आगरा'।

SubQuestion No : 16

Q. यहाँ की रामबरात किस लिए प्रसिद्ध है ?

16

Ans

- ☐ 1. रामबरात अपनी पावनता के लिए प्रसिद्ध है।
- ☐ 2. रामबरात अपनी प्राचीनता के लिए प्रसिद्ध है।
- ☐ 3. राम बरात अपनी पवित्रता के लिए प्रसिद्ध है।
- ☒ 4. रामबरात अपनी भव्यता के लिए प्रसिद्ध है।

Question ID : 441009843185

Option 1 ID : 4410093325707

Option 2 ID : 4410093325705

Option 3 ID : 4410093325704

Option 4 ID : 4410093325706

Comprehension:

गद्यांश को पढ़कर नीचे दिए गये प्रश्नों का उत्तर दीजिए।

आगरा धार्मिक दृष्टि से भी महत्वपूर्ण है। आये दिन यहाँ धार्मिक आयोजन होते रहते हैं। यहाँ की 'रामबरात' अपनी भव्यता के लिए प्रसिद्ध है। आगरा के चारों कोनों पर- कैलाश, पृथ्वीनाथ, राजेश्वर और बलकेश्वर महादेवजी के प्राचीन मंदिर हैं तथा नगर के मध्य में मनकामेश्वर महादेव का मन्दिर है। शिवभक्त प्रत्येक सोमवार को मनकामेश्वर महादेव के दर्शन कर दीपक जलाते हैं। श्रावण के चारों सोमवारों को क्रमशः इन मन्दिरों पर मेला लगता है तथा श्रावण के दूसरे सोमवार को शिवभक्त इन चारों मन्दिरों की परिक्रमा लगाते हैं। इस प्रकार पूरे आगरा नगर की परिक्रमा लग जाती है। इस समय शिवभक्तों की भक्ति भावना देखते ही बनती है। हमें गर्व है कि हम ऐतिहासिक नगर आगरा में निवास करते हैं। आगरा नगर देश में ही नहीं विदेशों में भी प्रसिद्ध है। प्रतिदिन असंख्य देशी-विदेशी पर्यटक यहाँ आते हैं। इनको आकर्षित करने के लिए हमें ध्यान रखना होगा - 'ग्रीन आगरा, क्लीन आगरा'।

SubQuestion No : 17

Q. गद्यांश में प्रयुक्त 'परिक्रमा' शब्द का अर्थ होगा -

17

Ans

- ☐ 1. किसी व्यक्ति के चारों ओर घूमना।
- ☐ 2. चारों ओर से घिरा हुआ।
- ☐ 3. नगर का कोई विशिष्ट भाग।
- ☒ 4. किसी स्थान के, विशेषतः देवता या पवित्र स्थानों के चारों ओर घूमना।

Question ID : 441009843187

Option 1 ID : 4410093325713

Option 2 ID : 4410093325715

Option 3 ID : 4410093325714

Option 4 ID : 4410093325712

Comprehension:

गद्यांश को पढ़कर नीचे दिए गये प्रश्नों का उत्तर दीजिए।

आगरा धार्मिक दृष्टि से भी महत्वपूर्ण है। आये दिन यहाँ धार्मिक आयोजन होते रहते हैं। यहाँ की 'रामबरात' अपनी भव्यता के लिए प्रसिद्ध है। आगरा के चारों कोनों पर- कैलाश, पृथ्वीनाथ, राजेश्वर और बलकेश्वर महादेवजी के प्राचीन मंदिर हैं तथा नगर के मध्य में मनकामेश्वर महादेव का मन्दिर है। शिवभक्त प्रत्येक सोमवार को मनकामेश्वर महादेव के दर्शन कर दीपक जलाते हैं। श्रावण के चारों सोमवारों को क्रमशः इन मन्दिरों पर मेला लगता है तथा श्रावण के दूसरे सोमवार को शिवभक्त इन चारों मन्दिरों की परिक्रमा लगाते हैं। इस प्रकार पूरे आगरा नगर की परिक्रमा लग जाती है। इस समय शिवभक्तों की भक्ति भावना देखते ही बनती है। हमें गर्व है कि हम ऐतिहासिक नगर आगरा में निवास करते हैं। आगरा नगर देश में ही नहीं विदेशों में भी प्रसिद्ध है। प्रतिदिन असंख्य देशी-विदेशी पर्यटक यहाँ आते हैं। इनको आकर्षित करने के लिए हमें ध्यान रखना होगा - 'ग्रीन आगरा, क्लीन आगरा।'

SubQuestion No : 18

Q. आगरा किस दृष्टि से महत्वपूर्ण है ?

18

- A ns
- ☒ 1. आगरा पुरातन दृष्टि से महत्वपूर्ण है।
 - ☒ 2. आगरा ताजमहल की दृष्टि से महत्वपूर्ण है।
 - ☒ 3. आगरा धार्मिक दृष्टि से महत्वपूर्ण है।
 - ☒ 4. आगरा पर्यटन की दृष्टि से महत्वपूर्ण है।

Question ID : 441009843184

Option 1 ID : 4410093325701

Option 2 ID : 4410093325703

Option 3 ID : 4410093325702

Option 4 ID : 4410093325700

Comprehension:

गद्यांश को पढ़कर नीचे दिए गये प्रश्नों का उत्तर दीजिए।

आगरा धार्मिक दृष्टि से भी महत्वपूर्ण है। आये दिन यहाँ धार्मिक आयोजन होते रहते हैं। यहाँ की 'रामबरात' अपनी भव्यता के लिए प्रसिद्ध है। आगरा के चारों कोनों पर- कैलाश, पृथ्वीनाथ, राजेश्वर और बलकेश्वर महादेवजी के प्राचीन मंदिर हैं तथा नगर के मध्य में मनकामेश्वर महादेव का मन्दिर है। शिवभक्त प्रत्येक सोमवार को मनकामेश्वर महादेव के दर्शन कर दीपक जलाते हैं। श्रावण के चारों सोमवारों को क्रमशः इन मन्दिरों पर मेला लगता है तथा श्रावण के दूसरे सोमवार को शिवभक्त इन चारों मन्दिरों की परिक्रमा लगाते हैं। इस प्रकार पूरे आगरा नगर की परिक्रमा लग जाती है। इस समय शिवभक्तों की भक्ति भावना देखते ही बनती है। हमें गर्व है कि हम ऐतिहासिक नगर आगरा में निवास करते हैं। आगरा नगर देश में ही नहीं विदेशों में भी प्रसिद्ध है। प्रतिदिन असंख्य देशी-विदेशी पर्यटक यहाँ आते हैं। इनको आकर्षित करने के लिए हमें ध्यान रखना होगा - 'ग्रीन आगरा, क्लीन आगरा।'

SubQuestion No : 19

Q. गद्यांश में प्रयुक्त 'धार्मिक' का विलोम शब्द होगा -

19

- A ns
- ☒ 1. अधार्मिक
 - ☒ 2. पापी
 - ☒ 3. निर्धन
 - ☒ 4. अधीरता

Question ID : 441009843188

Option 1 ID : 4410093325718

Option 2 ID : 4410093325716

Option 3 ID : 4410093325717

Option 4 ID : 4410093325719

Comprehension:

गद्यांश को पढ़कर नीचे दिए गये प्रश्नों का उत्तर दीजिए।

आगरा धार्मिक दृष्टि से भी महत्वपूर्ण है। आये दिन यहाँ धार्मिक आयोजन होते रहते हैं। यहाँ की 'रामबरात' अपनी भव्यता के लिए प्रसिद्ध है। आगरा के चारों कोनों पर- कैलाश, पृथ्वीनाथ, राजेश्वर और बलकेश्वर महादेवजी के प्राचीन मंदिर हैं तथा नगर के मध्य में मनकामेश्वर महादेव का मन्दिर है। शिवभक्त प्रत्येक सोमवार को मनकामेश्वर महादेव के दर्शन कर दीपक जलाते हैं। श्रावण के चारों सोमवारों को कमशः इन मन्दिरों पर मेला लगता है तथा श्रावण के दूसरे सोमवार को शिवभक्त इन चारों मन्दिरों की परिक्रमा लगाते हैं। इस प्रकार पूरे आगरा नगर की परिक्रमा लग जाती है। इस समय शिवभक्तों की भक्ति भावना देखते ही बनती है। हमें गर्व है कि हम ऐतिहासिक नगर आगरा में निवास करते हैं। आगरा नगर देश में ही नहीं विदेशों में भी प्रसिद्ध है। प्रतिदिन असंख्य देशी-विदेशी पर्यटक यहाँ आते हैं। इनको आकर्षित करने के लिए हमें ध्यान रखना होगा - 'ग्रीन आगरा, क्लीन आगरा।'

SubQuestion No : 20

Q. गद्यांश के लिए उपयुक्त शीर्षक का चयन कीजिए।

20

A ns ☒ 1. आगरा का बाजारीकरण

☒ 2. आगरा का उद्योग

☒ 3. आगरा का धार्मिक महत्त्व

☒ 4. आगरा के पेठे

Question ID : 441009843186

Option 1 ID : 4410093325709

Option 2 ID : 4410093325710

Option 3 ID : 4410093325708

Option 4 ID : 4410093325711

Section : Discipline1

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

A ns ☒ 1. Dorsal respiratory group

☒ 2. Lungs

☒ 3. Pneumotaxic center

☒ 4. Ventral respiratory group

Question ID : 441009651000

Option 1 ID : 4410092558257

Option 2 ID : 4410092558260

Option 3 ID : 4410092558259

Option 4 ID : 4410092558258

Q. Which of the following is correct regarding the plant life cycle?

2

A ☒ 1. Haplontic example is Volvox, diplontic example is gymnosperm and haplo-diplontic example is Bryophytes

☒ 2. Haplontic example is Bryophytes, diplontic example is gymnosperm and haplo-diplontic example is Volvox

☒ 3. Haplontic example is gymnosperm, diplontic example is Volvox and haplo-diplontic example is Bryophytes

☒ 4. Haplontic example is Volvox, diplontic example is Bryophytes and haplo-diplontic example is gymnosperm

Question ID : 441009650768

Option 1 ID : 4410092557329

Option 2 ID : 4410092557330

Option 3 ID : 4410092557331

Option 4 ID : 4410092557332

Q. Which is the second largest gland in human body and lies between stomach and duodenum?

3

A ☒ 1. Pancreas

ns

☒ 2. Liver

☒ 3. Spleen

☒ 4. Kidney

Question ID : 441009651009

Option 1 ID : 4410092558296

Option 2 ID : 4410092558294

Option 3 ID : 4410092558295

Option 4 ID : 4410092558293

Q. Which of the following is the lowermost layer of the epidermis formed of a single row of columnar cells, which divide throughout their life to produce new cells in the skin?

4

A ☒ 1. Stratum malpighii

ns

☒ 2. Stratum granulosum

☒ 3. Stratum lucidum

☒ 4. Stratum corneum

Question ID : 441009650771

Option 1 ID : 4410092557342

Option 2 ID : 4410092557344

Option 3 ID : 4410092557343

Option 4 ID : 4410092557341

Q. Which of the following types of life cycle occurs in Volvox, Spyrogyra and some species of Chlamydomonas?

- Answers
- ☒ 1. Diplohaplontic
 - ☒ 2. Diplontic
 - ☒ 3. Haplontic
 - ☒ 4. Haplodiplontic

Question ID : 441009651357
Option 1 ID : 4410092559686
Option 2 ID : 4410092559685
Option 3 ID : 4410092559687
Option 4 ID : 4410092559688

Q. Alternation of generation is found in:

- 6 Answers
- ☒ 1. all sexually reproducing plants
 - ☒ 2. only Algae and Bryophytes
 - ☒ 3. only Pteridophytes and Gymnosperms
 - ☒ 4. only Gymnosperms and Angiosperms

Question ID : 441009651280
Option 1 ID : 4410092559378
Option 2 ID : 4410092559377
Option 3 ID : 4410092559380
Option 4 ID : 4410092559379

Q. In a typical pteridophyte, the early embryo derives its nutrition from:

- 7 Answers
- ☒ 1. the nucellus
 - ☒ 2. the endosperm
 - ☒ 3. the gametophyte
 - ☒ 4. the sporophyte

Question ID : 441009651125
Option 1 ID : 4410092558758
Option 2 ID : 4410092558760
Option 3 ID : 4410092558757
Option 4 ID : 4410092558759

Q. Porins are channels for transport of substances across membranes. Where are they found in a gram negative bacteria?

- Answers
- ☒ 1. Slime layer
 - ☒ 2. Cell wall
 - ☒ 3. Outer membrane
 - ☒ 4. Capsule

Question ID : 441009651136
Option 1 ID : 4410092558803
Option 2 ID : 4410092558804
Option 3 ID : 4410092558802
Option 4 ID : 4410092558801

Q. Seeds of monocotyledons have a single cotyledon called _____.
9

- Answers
- ☒ 1. coleorhiza
 - ☒ 2. radicle
 - ☒ 3. plumule
 - ☒ 4. scutellum

Question ID : 441009650980
Option 1 ID : 4410092558180
Option 2 ID : 4410092558177
Option 3 ID : 4410092558178
Option 4 ID : 4410092558179

Q. The approach of classification in which organisms are grouped by counting 10 and measuring as many characteristics as possible and involves creating a matrix based on the similarities between them, using computational methods, is called:

- Answers
- ☒ 1. Numerical Taxonomy
 - ☒ 2. Natural Classification
 - ☒ 3. Chemotaxonomy
 - ☒ 4. Cytotaxonomy

Question ID : 441009651347
Option 1 ID : 4410092559647
Option 2 ID : 4410092559645
Option 3 ID : 4410092559646
Option 4 ID : 4410092559648

Q. Which of the following is secreted by the 'I' cells in the mucosa of the 11 duodenum and jejunum mainly in response to digestive products of fat, fatty acids and monoglycerides in the intestinal contents?

- Answers
- ☒ 1. Hydrochloric acid
 - ☒ 2. Cholecystokinin
 - ☒ 3. Insulin
 - ☒ 4. Salivary amylase

Question ID : 441009651004
Option 1 ID : 4410092558273
Option 2 ID : 4410092558274
Option 3 ID : 4410092558276
Option 4 ID : 4410092558275

Q. What does the symbol $\oplus$ indicate in a floral formula?
12

- Answers
- ☒ 1. Epigynous flower
 - ☒ 2. Zygomorphic flower
 - ☒ 3. Bisexual flower
 - ☒ 4. Actinomorphic flower

Question ID : 441009937885
Option 1 ID : 4410093705261
Option 2 ID : 4410093705260
Option 3 ID : 4410093705262
Option 4 ID : 4410093705259

Q. While studying the comparative anatomy of a stem, a student found a layer of 13 cells rich in starch grains in the dicot stem but not in the monocot stem. Identify the layer from the given options.

- Answers
- ☒ 1. Hypodermis
 - ☒ 2. General cortex
 - ☒ 3. Endodermis
 - ☒ 4. Pericycle

Question ID : 441009651118
Option 1 ID : 4410092558730
Option 2 ID : 4410092558731
Option 3 ID : 4410092558732
Option 4 ID : 4410092558729

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 an adult human being, this rate is approximately:

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

Question ID : 441009650995
Option 1 ID : 4410092558240
Option 2 ID : 4410092558238
Option 3 ID : 4410092558237
Option 4 ID : 4410092558239

Q. Which of the following DOES NOT have bulbils?
15

- Ans
- ☐ 1. Agave
 - ☐ 2. Globba
 - ☒ 3. Hibiscus
 - ☐ 4. Allium sativum

Question ID : 441009650982
Option 1 ID : 4410092558185
Option 2 ID : 4410092558186
Option 3 ID : 4410092558188
Option 4 ID : 4410092558187

Q. Which is the second largest gland and lies between the two arms of 'U' formed by stomach and duodenum?

- Ans
- ☐ 1. Liver
 - ☐ 2. Kidney
 - ☒ 3. Pancreas
 - ☐ 4. Spleen

Question ID : 441009650986
Option 1 ID : 4410092558202
Option 2 ID : 4410092558201
Option 3 ID : 4410092558204
Option 4 ID : 4410092558203

Q. In bryophytes, hair-like extensions of epidermal cells along their ventral surface are called rhizoids. What is the primary function of rhizoids?

- Answers
- ☐ 1. Maintain supply of water and minerals to the plant
 - ☐ 2. Absorb water
 - ☐ 3. Absorb minerals
 - ☒ 4. Provide anchorage to the plant

Question ID : 441009651130
Option 1 ID : 4410092558780
Option 2 ID : 4410092558777
Option 3 ID : 4410092558778
Option 4 ID : 4410092558779

Q. Which of the the following characteristics are found in gymnosperms?
18

- 1. The xylem has tracheids but no vessels barring a few exceptions.
- 2. They are homosporous with few exceptions.
- 3. Both the margins of the megasporophyll are fused to form a closed structure.
- 4. They have non-flagellated male gametes with few exceptions.

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

Question ID : 441009651128
Option 1 ID : 4410092558769
Option 2 ID : 4410092558770
Option 3 ID : 4410092558771
Option 4 ID : 4410092558772

Q. In Cycas, small specialised roots called coralloid roots are associated with
19 which of the following?

- Answers
- ☐ 1. Photosynthetic organisms
 - ☒ 2. N₂-fixing cyanobacteria
 - ☐ 3. Rhizobium bacteria
 - ☐ 4. Fungi

Question ID : 441009650770
Option 1 ID : 4410092557337
Option 2 ID : 4410092557338
Option 3 ID : 4410092557340
Option 4 ID : 4410092557339

Q. In most of the pteridophytes, gametophyte:

20

Ans ☒ 1. is independent from parent sporophyte

☐ 2. remains semi-parasitic on parent sporophyte

☐ 3. gives rise to a seed

☐ 4. is retained on parent sporophyte for variable periods

Question ID : 441009651275

Option 1 ID : 4410092559358

Option 2 ID : 4410092559359

Option 3 ID : 4410092559360

Option 4 ID : 4410092559357

Section : Discipline2

Q. During high light intensity, which of the following is the most important reason for photorespiration to start?

Ans ☐ 1. Chloroplastic concentration of CO₂ becomes very high.

☒ 2. Chloroplastic concentration of oxygen becomes very high.

☐ 3. Chloroplastic concentration of NADP⁺ becomes very high.

☐ 4. ATP accumulation in stroma.

Question ID : 441009651061

Option 1 ID : 4410092558501

Option 2 ID : 4410092558504

Option 3 ID : 4410092558502

Option 4 ID : 4410092558503

Q. Who among the following proposed the electro-osmotic theory?

2

Ans ☒ 1. Fensom (1957)

☐ 2. Traubes (1883)

☐ 3. Overtons (1896)

☐ 4. Llyod (1915)

Question ID : 441009651140

Option 1 ID : 4410092558817

Option 2 ID : 4410092558818

Option 3 ID : 4410092558819

Option 4 ID : 4410092558820

Q. During respiratory electron transport, a mobile electron carrier receives 3 electron from both complex I and complex II. Identify this electron carrier from the options given.

- Answers
- ☒ 1. NADH+H⁺
 - ☒ 2. Cyt. bc₁ complex
 - ☒ 3. Ubiquinone
 - ☒ 4. Cyt. C

Question ID : 441009651220

Option 1 ID : 4410092559137

Option 2 ID : 4410092559140

Option 3 ID : 4410092559139

Option 4 ID : 4410092559138

Q. The action spectra of photosynthesis was first measured by W. Engelmann.
4 Which of the following organisms were used by him in his experiment?

- Answers
- ☒ 1. Chlorella and archaebacteria
 - ☒ 2. Scendesmus and aerobic bacteria
 - ☒ 3. Scendesmus and anaerobic bacteria
 - ☒ 4. Cladophora and aerobic bacteria

Question ID : 441009651070

Option 1 ID : 4410092558537

Option 2 ID : 4410092558538

Option 3 ID : 4410092558540

Option 4 ID : 4410092558539

Q. Which of the following molecules can function as an allosteric activator?
5

- Answers
- ☒ 1. Carbon dioxide
 - ☒ 2. Glucose
 - ☒ 3. ATP
 - ☒ 4. Oxygen

Question ID : 441009651074

Option 1 ID : 4410092558555

Option 2 ID : 4410092558556

Option 3 ID : 4410092558554

Option 4 ID : 4410092558553

Q. In Michaelis-Menten kinetics, which of the following assumptions is most critical to derive the rate equation for a single-substrate enzyme?

- Answers
- ☐ 1. The substrate concentration is much lower than the enzyme concentration.
 - ☐ 2. The enzyme undergoes conformational change during catalysis.
 - ☐ 3. The product formation is irreversible.
 - ☒ 4. The enzyme-substrate complex reaches a steady-state concentration.

Question ID : 441009941440
Option 1 ID : 4410093719416
Option 2 ID : 4410093719417
Option 3 ID : 4410093719414
Option 4 ID : 4410093719415

Q. Which of the following active enzymes consists of three polypeptide chains?

- Answers
- ☒ 1. Chymotrypsin
 - ☐ 2. Carboxypeptidase
 - ☐ 3. Papain
 - ☐ 4. Lysozyme

Question ID : 441009651435
Option 1 ID : 4410092559999
Option 2 ID : 4410092559998
Option 3 ID : 4410092560000
Option 4 ID : 4410092559997

Q. Phloem is associated with the translocation of mainly _____.

- Answers
- ☒ 1. a variety of organic and inorganic solutes, mainly from the leaves to other parts of the plants
 - ☐ 2. a variety of organic, inorganic solutes and water, mainly from the leaves to other parts of the plants
 - ☐ 3. a variety of organic, inorganic solutes and hormones, mainly from the leaves to other parts of the plants
 - ☐ 4. a variety of organic and inorganic solutes, mainly from the roots to other parts of the plants

Question ID : 441009650763
Option 1 ID : 4410092557312
Option 2 ID : 4410092557310
Option 3 ID : 4410092557311
Option 4 ID : 4410092557309

Q. The International Union of Biochemistry report of 1962 (revised in 1964) contains a scheme for the classification of enzymes and divided the enzymes into six groups. Which enzyme is NOT included in this classification, but is included in another system where the enzyme's name is derived from its substrate?

- Answers
- ☒ 1. Oxidoreductase
 - ☒ 2. Ligase
 - ☒ 3. Esterase
 - ☒ 4. Lyase

Question ID : 441009651436
Option 1 ID : 4410092560001
Option 2 ID : 4410092560004
Option 3 ID : 4410092560002
Option 4 ID : 4410092560003

Q. Water potential of pure water at standard temperatures is _____.

10

- Answers
- ☒ 1. one
 - ☒ 2. ten
 - ☒ 3. zero
 - ☒ 4. five

Question ID : 441009937745
Option 1 ID : 4410093704700
Option 2 ID : 4410093704702
Option 3 ID : 4410093704699
Option 4 ID : 4410093704701

Q. Which of the following is the technique of growing plants in a nutrient solution?

- Answers
- ☒ 1. Aeroponics
 - ☒ 2. Hydrarch
 - ☒ 3. Aquaponics
 - ☒ 4. Hydroponics

Question ID : 441009937686
Option 1 ID : 4410093704465
Option 2 ID : 4410093704463
Option 3 ID : 4410093704466
Option 4 ID : 4410093704464

Q. Which of the following C₄ acids is synthesised in the mesophyll cells of C₄ plants?

- Answers
- ☒ 1. Malate
 - ☒ 2. Oxaloacetate
 - ☒ 3. Succinate
 - ☒ 4. Fumarate

Question ID : 441009650766

Option 1 ID : 4410092557323

Option 2 ID : 4410092557324

Option 3 ID : 4410092557321

Option 4 ID : 4410092557322

Q. What does the Michaelis constant (K_m) represent?

- Answers
- ☒ 1. Maximum enzyme activity
 - ☒ 2. Total enzyme concentration
 - ☒ 3. The substrate concentration at half-maximum velocity
 - ☒ 4. The rate of product formation

Question ID : 441009650975

Option 1 ID : 4410092558157

Option 2 ID : 4410092558159

Option 3 ID : 4410092558158

Option 4 ID : 4410092558160

Q. During absorption of inorganic solutes by plant roots, adjustment of the quantity and types of solute that reach the root xylem is function of:

- Answers
- ☒ 1. transport proteins of endodermal cells
 - ☒ 2. pericycle cells of roots
 - ☒ 3. Casparian strips of root endodermis
 - ☒ 4. apoplastic movement of solutes through endodermis

Question ID : 441009651206

Option 1 ID : 4410092559084

Option 2 ID : 4410092559081

Option 3 ID : 4410092559082

Option 4 ID : 4410092559083

Q. Which type of inhibition can be reversed by increasing substrate concentration?

- Answers
- ☒ 1. Competitive inhibition
 - ☐ 2. Non-competitive inhibition
 - ☐ 3. Irreversible inhibition
 - ☐ 4. Uncompetitive inhibition

Question ID : 441009941497
Option 1 ID : 4410093719641
Option 2 ID : 4410093719640
Option 3 ID : 4410093719643
Option 4 ID : 4410093719642

Q. Absorption of minerals by plant roots occurs both by passive and active transport. Which of the following plays an important role during the conditions of secondary active transport of elements?

- Answers
- ☐ 1. Carrier proteins of plasma membrane
 - ☐ 2. Concentration gradient of the element
 - ☐ 3. Channel proteins of plasma membrane
 - ☒ 4. Proton pumps of plasma membrane

Question ID : 441009651089
Option 1 ID : 4410092558614
Option 2 ID : 4410092558616
Option 3 ID : 4410092558613
Option 4 ID : 4410092558615

Q. After absorption of water by roots, most of the water moves through apoplastic pathways in the cortical tissue, but its entry into the vascular cylinder is necessitated through the symplast due to the presence of:

- Answers
- ☐ 1. suberin in the walls of the pericycle
 - ☐ 2. cuticle in the walls of the pericycle
 - ☒ 3. suberin in the walls of the endodermis
 - ☐ 4. chitin in the walls of the endodermis

Question ID : 441009650805
Option 1 ID : 4410092557478
Option 2 ID : 4410092557477
Option 3 ID : 4410092557479
Option 4 ID : 4410092557480

Q. Which of the following organelles contain(s) enzymes that are involved in the β -oxidation of fatty acids and detoxification of hydrogen peroxide?

- Answers
- ☒ 1. Endoplasmic reticulum
 - ☒ 2. Mitochondria
 - ☒ 3. Lysosomes
 - ☒ 4. Peroxisomes

Question ID : 441009941423
Option 1 ID : 4410093719350
Option 2 ID : 4410093719347
Option 3 ID : 4410093719349
Option 4 ID : 4410093719348

Q. Some enzymes consist of a single polypeptide chain, which is highly folded into a spherical shape. Which of the following enzymes consists of two polypeptide chains?

- Answers
- ☒ 1. Ribonuclease
 - ☒ 2. Insulin
 - ☒ 3. Carboxypeptidase
 - ☒ 4. Lysozyme

Question ID : 441009651434
Option 1 ID : 4410092559994
Option 2 ID : 4410092559996
Option 3 ID : 4410092559995
Option 4 ID : 4410092559993

Q. Which of the following is true about sequential (ternary complex) mechanisms of bi-substrate enzymes?

- Answers
- ☒ 1. A ternary complex is formed with both substrates before the reaction proceeds.
 - ☒ 2. Both substrates bind independently, and products are released sequentially.
 - ☒ 3. Enzyme binds only one substrate at a time.
 - ☒ 4. One product is released before the second substrate binds.

Question ID : 441009941457
Option 1 ID : 4410093719484
Option 2 ID : 4410093719482
Option 3 ID : 4410093719485
Option 4 ID : 4410093719483

Section : Discipline3

Q. Which of the following is the primary focus of the sociosexuality theory in 1 adult relationships?

Ans ☒ 1. The desire for sexual variety and exploration

☐ 2. The emotional connection in sexual relationships

☐ 3. The frequency of sexual encounters

☐ 4. The importance of sexual exclusivity

Question ID : 441009650754

Option 1 ID : 4410092557274

Option 2 ID : 4410092557275

Option 3 ID : 4410092557273

Option 4 ID : 4410092557276

Q. Which of the following types of movement involves the shortening of muscle 2 fibres to produce force?

Ans ☐ 1. Isotonic contraction

☐ 2. Eccentric contraction

☒ 3. Concentric contraction

☐ 4. Isometric contraction

Question ID : 441009650792

Option 1 ID : 4410092557428

Option 2 ID : 4410092557426

Option 3 ID : 4410092557427

Option 4 ID : 4410092557425

Q. Which of the following is the correct equation for the CO₂ fixation during the 3 dark reaction in C₃ plants?

Ans ☐ 1. $12\text{CO}_2 + 18\text{ATP} + 12\text{NADPH} + 12\text{H}^+ = 2\text{C}_6\text{H}_{12}\text{O}_6 + 18\text{ADP} + 18\text{Pi} + 12\text{NADP}^+ + 6\text{H}_2\text{O}$

☒ 2. $6\text{CO}_2 + 18\text{ATP} + 12\text{NADPH} + 12\text{H}^+ = \text{C}_6\text{H}_{12}\text{O}_6 + 18\text{ADP} + 18\text{Pi} + 12\text{NADP}^+ + 6\text{H}_2\text{O}$

☐ 3. $6\text{CO}_2 + 12\text{ATP} + 12\text{NADPH} + 12\text{H}^+ = \text{C}_6\text{H}_{12}\text{O}_6 + 12\text{ADP} + 18\text{Pi} + 12\text{NADP}^+ + 6\text{H}_2\text{O}$

☐ 4. $6\text{CO}_2 + 18\text{ATP} + 18\text{NADPH} + 12\text{H}^+ = \text{C}_6\text{H}_{12}\text{O}_6 + 18\text{ADP} + 18\text{Pi} + 18\text{NADP}^+ + 6\text{H}_2\text{O}$

Question ID : 441009650767

Option 1 ID : 4410092557325

Option 2 ID : 4410092557326

Option 3 ID : 4410092557328

Option 4 ID : 4410092557327

Q. What is the primary effect of insulin on glucose metabolism in the liver?

4

- Answers
- ☐ 1. Increased glucose release
 - ☐ 2. Increased glycogenolysis
 - ☐ 3. Increased gluconeogenesis
 - ☒ 4. Increased glycogen synthesis

Question ID : 441009977340

Option 1 ID : 4410093862137

Option 2 ID : 4410093862134

Option 3 ID : 4410093862135

Option 4 ID : 4410093862136

Q. The dark bands that contain myosin filaments, as well as the ends of the 5 actin filaments where they overlap the myosin are called:

A

- ns
- ☐ 1. Z discs
 - ☐ 2. I bands
 - ☐ 3. sarcomeres
 - ☒ 4. A bands

Question ID : 441009650750

Option 1 ID : 4410092557258

Option 2 ID : 4410092557260

Option 3 ID : 4410092557259

Option 4 ID : 4410092557257

Q. Which of the following is secreted by 'I' cells in the mucosa of the duodenum 6 and jejunum mainly in response to digestive products of fat, fatty acids and monoglycerids in the intestinal contents?

A

- ns
- ☐ 1. Hydrochloric acid
 - ☐ 2. Insulin
 - ☐ 3. Salivary amylase
 - ☒ 4. Cholecystokinin

Question ID : 441009650983

Option 1 ID : 4410092558189

Option 2 ID : 4410092558192

Option 3 ID : 4410092558191

Option 4 ID : 4410092558190

Q. What is a common medical treatment for women with ovulatory dysfunction?

7

A ☒ 1. Hormonal therapy

ns

☐ 2. Surgery

☐ 3. Dietary changes

☐ 4. Acupuncture

Question ID : 441009650746

Option 1 ID : 4410092557242

Option 2 ID : 4410092557241

Option 3 ID : 4410092557243

Option 4 ID : 4410092557244

Q. Which of the following organs contributes to the excretion of metabolic wastes by converting them into less toxic substances and secreting them into the bile?

8

A ☐ 1. Intestines

ns

☐ 2. Lungs

☐ 3. Skin

☒ 4. Liver

Question ID : 441009651212

Option 1 ID : 4410092559108

Option 2 ID : 4410092559105

Option 3 ID : 4410092559106

Option 4 ID : 4410092559107

Q. There has been continuous increase in atmospheric CO₂ concentration in last hundred years due to large scale fossil fuel burning. This Increase in atmospheric CO₂ concentrations may:

9

A ☒ 1. promote photosynthesis in C3 Plants

ns

☐ 2. decrease photosynthesis in C4 Plants

☐ 3. promote photosynthesis in C4 Plants

☐ 4. decrease photosynthesis in C3 Plants

Question ID : 441009651041

Option 1 ID : 4410092558422

Option 2 ID : 4410092558423

Option 3 ID : 4410092558421

Option 4 ID : 4410092558424

Q. Under the influence of excessive amounts of growth hormone, fat mobilisation from adipose tissue sometimes becomes so great that large quantities of acetoacetic acid are formed by the liver and released into the body fluids causing which of the following conditions?

- Answers
- ☒ 1. Hyperbilirubinaemia
 - ☒ 2. Kernicterus
 - ☒ 3. Haemolytic anaemia
 - ☒ 4. Ketosis

Question ID : 441009650739
Option 1 ID : 4410092557215
Option 2 ID : 4410092557216
Option 3 ID : 4410092557214
Option 4 ID : 4410092557213

Q. Many hormones activate receptors that indirectly regulate the activity of 11 target proteins (e.g., enzymes or ion channels) by coupling with groups of cell membrane proteins called:

- Answers
- ☒ 1. F1 proteins
 - ☒ 2. F2 proteins
 - ☒ 3. C proteins
 - ☒ 4. G proteins

Question ID : 441009650747
Option 1 ID : 4410092557245
Option 2 ID : 4410092557246
Option 3 ID : 4410092557247
Option 4 ID : 4410092557248

Q. Which of the following conditions is primarily caused by a deficiency of 12 vitamin B12?

- Answers
- ☒ 1. Scurvy
 - ☒ 2. Pernicious anaemia
 - ☒ 3. Pellagra
 - ☒ 4. Rickets

Question ID : 441009651217
Option 1 ID : 4410092559127
Option 2 ID : 4410092559128
Option 3 ID : 4410092559126
Option 4 ID : 4410092559125

Q. Which of the following strategies is considered most effective for improving reproductive health in a community?

- Answers
- ☐ 1. Increasing the number of health clinics without any additional services
 - ☐ 2. Promoting early marriages as a means of increasing population growth
 - ☐ 3. Offering free healthcare services to selected individuals regardless of reproductive health needs
 - ☒ 4. Educating the population on contraceptive methods and family planning

Question ID : 441009651151
Option 1 ID : 4410092558861
Option 2 ID : 4410092558864
Option 3 ID : 4410092558863
Option 4 ID : 4410092558862

Q. What is the primary cause of cervical cancer?

- Answers
- ☐ 1. Neisseria gonorrhoeae
 - ☐ 2. Herpes Simplex Virus (HSV)
 - ☐ 3. Chlamydia trachomatis
 - ☒ 4. Human Papillomavirus (HPV)

Question ID : 441009977535
Option 1 ID : 4410093862897
Option 2 ID : 4410093862895
Option 3 ID : 4410093862896
Option 4 ID : 4410093862894

Q. Which of the following is the primary effect of alcohol consumption during pregnancy on foetal development?

- Answers
- ☐ 1. Increased birth weight
 - ☒ 2. Foetal alcohol spectrum disorder (FASD)
 - ☐ 3. Enhanced cognitive abilities
 - ☐ 4. No effect on foetal development

Question ID : 441009650740
Option 1 ID : 4410092557217
Option 2 ID : 4410092557218
Option 3 ID : 4410092557219
Option 4 ID : 4410092557220

Q. Which of the following disorders is characterised by an individual having a 16 46,XY karyotype but presenting with female external genitalia due to androgen insensitivity?

Ans ☒ 1. Androgen Insensitivity Syndrome

☐ 2. Complete Androgen Deficiency Syndrome

☐ 3. Turner Syndrome

☐ 4. Klinefelter Syndrome

Question ID : 441009651164

Option 1 ID : 4410092558915

Option 2 ID : 4410092558916

Option 3 ID : 4410092558913

Option 4 ID : 4410092558914

Q. Which of the following neurotransmitters is primarily involved in regulating mood and emotion, and is often targeted by antidepressant medications?

Ans ☐ 1. GABA

☐ 2. Acetylcholine

☒ 3. Serotonin

☐ 4. Dopamine

Question ID : 441009651173

Option 1 ID : 4410092558952

Option 2 ID : 4410092558949

Option 3 ID : 4410092558951

Option 4 ID : 4410092558950

Q. Which ion is mainly responsible for maintaining the resting membrane potential in a neuron?

Ans ☐ 1. Ca^{2+}

☐ 2. Cl^-

☒ 3. K^+

☐ 4. Na^+

Question ID : 441009947868

Option 1 ID : 4410093744979

Option 2 ID : 4410093744980

Option 3 ID : 4410093744978

Option 4 ID : 4410093744977

Q. Which of the following drugs is NOT used for ovarian stimulation?

19

- Answers
- ☒ 1. Clomiphene citrate
 - ☒ 2. Gonadotropin
 - ☒ 3. Metformin
 - ☒ 4. Omeprazol

Question ID : 441009650650

Option 1 ID : 4410092556858

Option 2 ID : 4410092556857

Option 3 ID : 4410092556860

Option 4 ID : 4410092556859

Q. When the cells of the embryo sac has the same number of chromosomes as 20 the cells of the mother plant, then it is called:

Answers

- ☒ 1. recurrent apomixis
- ☒ 2. haploid apogamy
- ☒ 3. non-recurrent apomixis
- ☒ 4. haploid parthenogenesis

Question ID : 441009650802

Option 1 ID : 4410092557468

Option 2 ID : 4410092557467

Option 3 ID : 4410092557465

Option 4 ID : 4410092557466

Section : Discipline4

Q. Which of the following characteristics is a defining feature of the Phylum 1 Chordata during its evolutionary development?

Answers

- ☒ 1. Presence of scales
- ☒ 2. Notochord at some stage of development
- ☒ 3. Presence of a hard exoskeleton
- ☒ 4. Development of feathers

Question ID : 441009650728

Option 1 ID : 4410092557172

Option 2 ID : 4410092557170

Option 3 ID : 4410092557169

Option 4 ID : 4410092557171

Q. Which of the following inhibits uterine contractility during pregnancy, thereby helping to prevent expulsion of the foetus?

- Answers
- ☒ 1. Progesterone
 - ☐ 2. Testosterone
 - ☐ 3. Androgen
 - ☐ 4. Oxytocin

Question ID : 441009650738
Option 1 ID : 4410092557210
Option 2 ID : 4410092557211
Option 3 ID : 4410092557212
Option 4 ID : 4410092557209

Q. Who among the following proposed the classical theory or two plane theory of crossing over?

- Answers
- ☐ 1. W S Sutton
 - ☐ 2. Gregor Johann Mendel
 - ☒ 3. L W Sharp
 - ☐ 4. Hugo de Vries

Question ID : 441009650833
Option 1 ID : 4410092557592
Option 2 ID : 4410092557590
Option 3 ID : 4410092557589
Option 4 ID : 4410092557591

Q. Which of the following provides direct evidence of organic evolution and gives the details of the evolutionary relationships of many lines of descent?

- Answers
- ☐ 1. Physiology
 - ☐ 2. Biochemistry
 - ☐ 3. Comparative anatomy
 - ☒ 4. Palaeontology

Question ID : 441009650934
Option 1 ID : 4410092557994
Option 2 ID : 4410092557995
Option 3 ID : 4410092557996
Option 4 ID : 4410092557993

Q. Spliceosomes and RNase P are examples of:

5

A ☒ 1. large ribozymes

ns

☐ 2. small ribozymes

☐ 3. group I introns

☐ 4. group II introns

Question ID : 441009650713

Option 1 ID : 4410092557110

Option 2 ID : 4410092557109

Option 3 ID : 4410092557111

Option 4 ID : 4410092557112

Q. Which of the following are the actual inducer of Lac operon and the enzyme responsible for its formation?

6

A ☐ 1. Lactose sugar and lactase enzyme

ns

☐ 2. Lactose sugar and β -galactosidase enzyme

☐ 3. Allolactose sugar and lactase enzyme

☒ 4. Allolactose sugar and β -galactosidase enzyme

Question ID : 441009650775

Option 1 ID : 4410092557357

Option 2 ID : 4410092557359

Option 3 ID : 4410092557358

Option 4 ID : 4410092557360

Q. Identify the disease and its pattern of inheritance, in which the enzyme for conversion of phenylalanine into tyrosine is missing, leading to intellectual disabilities and behavioural problems in human beings.

7

A ☒ 1. Phenylketonuria and autosomal recessive

ns

☐ 2. Albinism and autosomal recessive

☐ 3. Phenylketonuria and sex-linked dominant

☐ 4. Alkaptonuria and autosomal dominant

Question ID : 441009651194

Option 1 ID : 4410092559033

Option 2 ID : 4410092559035

Option 3 ID : 4410092559036

Option 4 ID : 4410092559034

Q. The inheritance of a character not involving the contribution of the male parent is likely to be determined by a gene present in the:

- Answers
- ☒ 1. Lysosomal DNA
 - ☒ 2. Nucleolar DNA
 - ☒ 3. Mitochondrial DNA
 - ☒ 4. Nuclear DNA

Question ID : 441009651197
Option 1 ID : 4410092559048
Option 2 ID : 4410092559047
Option 3 ID : 4410092559046
Option 4 ID : 4410092559045

Q. What does the Hardy-Weinberg equilibrium principle state about allele frequencies in a population?

- Answers
- ☒ 1. Allele frequencies will remain constant only in small populations.
 - ☒ 2. Allele frequencies will change due to genetic drift alone.
 - ☒ 3. Allele frequencies will remain constant from generation to generation in the absence of evolutionary influences.
 - ☒ 4. Allele frequencies will change due to mutation.

Question ID : 441009651144
Option 1 ID : 4410092558836
Option 2 ID : 4410092558835
Option 3 ID : 4410092558834
Option 4 ID : 4410092558833

Q. How many pairs of traits in pea plants did Gregor Mendel describe in his study of inheritance?

- Answers
- ☒ 1. Ten pairs
 - ☒ 2. Seven pairs
 - ☒ 3. Four pairs
 - ☒ 4. Twelve pairs

Question ID : 441009650835
Option 1 ID : 4410092557600
Option 2 ID : 4410092557597
Option 3 ID : 4410092557598
Option 4 ID : 4410092557599

Q. In a population of 100 individuals, 36% are homozygous recessive for a particular trait. What is the frequency of the recessive allele?

Ans ☒ 1. 0.6

☐ 2. 0.4

☐ 3. 0.8

☐ 4. 0.36

Question ID : 441009977542

Option 1 ID : 4410093862923

Option 2 ID : 4410093862924

Option 3 ID : 4410093862925

Option 4 ID : 4410093862922

Q. In a human population, a character was found to express across a 12 continuous gradient producing many phenotypic classes rather than distinct alternative forms. The inheritance of such a character must be governed by:

Ans ☒ 1. more than one gene

☐ 2. a single gene with distinct alternative forms

☐ 3. a gene affecting more than one character

☐ 4. more than two alleles of the same gene

Question ID : 441009651201

Option 1 ID : 4410092559064

Option 2 ID : 4410092559063

Option 3 ID : 4410092559061

Option 4 ID : 4410092559062

Q. Which of the following is a transition type of mutation?

13

Ans ☒ 1. Adenine replaced by Guanine

☐ 2. Cytocine replaced by Adenine

☐ 3. Guanine replaced by Cytocine

☐ 4. Adenine replaced by Cytocine

Question ID : 441009650831

Option 1 ID : 4410092557583

Option 2 ID : 4410092557584

Option 3 ID : 4410092557582

Option 4 ID : 4410092557581

Q. The Big Bang theory explains the origin of the universe, as starting from:

14

A ☒ 1. a singularity

ns

☐ 2. a black hole

☐ 3. a white dwarf

☐ 4. a neutron star

Question ID : 441009650734

Option 1 ID : 4410092557193

Option 2 ID : 4410092557194

Option 3 ID : 4410092557196

Option 4 ID : 4410092557195

Q. In a pathology laboratory, a tumour tissue sample is compared to a normal tissue sample so that differences in the levels of proteins can be measured. This kind of approach for disease diagnosis will fall within the ambits of which of the following?

A ☒ 1. Proteomics

ns

☐ 2. Bioinformatics

☐ 3. Genomics

☐ 4. Protein profiling

Question ID : 441009651184

Option 1 ID : 4410092558995

Option 2 ID : 4410092558996

Option 3 ID : 4410092558993

Option 4 ID : 4410092558994

Q. Which of the following is an example of Co-dominance?

16

A ☐ 1. Colour blindness

ns

☒ 2. ABO blood groups

☐ 3. Height of *Pisum sativum*

☐ 4. Skin colour in humans

Question ID : 441009651417

Option 1 ID : 4410092559928

Option 2 ID : 4410092559925

Option 3 ID : 4410092559927

Option 4 ID : 4410092559926

Q. In human females, the immature mammary glands consists of 16 to 25 lobes 17 and each has _____ ducts that extend up to the nipple.

A ns ☒ 1. nephridial

☒ 2. lactiferous

☒ 3. hepatic

☒ 4. biliary

Question ID : 441009650710

Option 1 ID : 4410092557099

Option 2 ID : 4410092557097

Option 3 ID : 4410092557100

Option 4 ID : 4410092557098

Q. The gene frequencies for the autosomal and sex-chromosomal alleles can be 18 determined by the help of which of the following?

A ns ☒ 1. Shelford's law

☒ 2. Law of dominance

☒ 3. Hardy-Weinberg law

☒ 4. Blackmann law

Question ID : 441009650673

Option 1 ID : 4410092556951

Option 2 ID : 4410092556949

Option 3 ID : 4410092556952

Option 4 ID : 4410092556950

Q. Which of following disorders is shown by the family pedigree of Queen 19 Victoria?

A ns ☒ 1. Sickle cell anaemia

☒ 2. Haemophilia

☒ 3. Myotonic dystrophy

☒ 4. Colour blindness

Question ID : 441009651414

Option 1 ID : 4410092559916

Option 2 ID : 4410092559915

Option 3 ID : 4410092559914

Option 4 ID : 4410092559913

Q. Binding of CRP-cAMP complex beside the Lac promoter induces:

20

- Answers
- ☒ 1. inhibition of RNA polymerase binding to Lac promoter
 - ☒ 2. inhibition of lactose utilisation by cell
 - ☒ 3. utilisation of lactose as carbon source
 - ☒ 4. utilisation of glucose as carbon source

Question ID : 441009651190

Option 1 ID : 4410092559020

Option 2 ID : 4410092559018

Option 3 ID : 4410092559019

Option 4 ID : 4410092559017

Section : Discipline5

Q. Which of the following options accurately describes chromatin?

1

- Answers
- ☒ 1. A part of the cell membrane
 - ☒ 2. A mixture of DNA and protein found in the nucleus
 - ☒ 3. Protein synthesis machinery
 - ☒ 4. A dense region of the nucleolus

Question ID : 441009650923

Option 1 ID : 4410092557952

Option 2 ID : 4410092557950

Option 3 ID : 4410092557951

Option 4 ID : 4410092557949

Q. Which of the following correctly describes the structural feature of cyclic AMP (cAMP)?

2

- Answers
- ☒ 1. It is a polymer of AMP molecules.
 - ☒ 2. It has a linear phosphate backbone.
 - ☒ 3. It is derived from ADP by removal of a phosphate group.
 - ☒ 4. It contains a phosphodiester bond between 3' and 5' carbon atoms of ribose.

Question ID : 441009951551

Option 1 ID : 4410093759596

Option 2 ID : 4410093759593

Option 3 ID : 4410093759595

Option 4 ID : 4410093759594

Q. The technique of DNA amplification without the need of prior knowledge of the genome being analysed and which can be employed across species using universal primers is called:

- Answers
- ☒ 1. polymerase chain reaction
 - ☒ 2. amplified fragment length polymorphism
 - ☒ 3. restriction fragment length polymorphism
 - ☒ 4. random amplification of polymorphic DNA

Question ID : 441009650773
Option 1 ID : 4410092557349
Option 2 ID : 4410092557352
Option 3 ID : 4410092557350
Option 4 ID : 4410092557351

Q. Which of the following is an example of microbial biocontrol agents that can be introduced in order to control butterfly caterpillars but leave other insects unharmed?

- Answers
- ☒ 1. Baculoviruses
 - ☒ 2. Azotobacter
 - ☒ 3. Glomus
 - ☒ 4. Bacillus thuringiensis

Question ID : 441009651362
Option 1 ID : 4410092559705
Option 2 ID : 4410092559707
Option 3 ID : 4410092559708
Option 4 ID : 4410092559706

Q. The Krebs cycle is the common oxidative pathway for carbohydrates, fats or amino acids. Through which compound do they enter this cycle?

- Answers
- ☒ 1. Acetyl CoA
 - ☒ 2. L-Malate
 - ☒ 3. Oxaloacetate
 - ☒ 4. Citrate

Question ID : 441009651376
Option 1 ID : 4410092559763
Option 2 ID : 4410092559764
Option 3 ID : 4410092559761
Option 4 ID : 4410092559762

Q. Glycolysis occurs in the absence of oxygen (anaerobic) or in the presence of oxygen (aerobic); which of the following is the end product under anaerobic conditions?

- Answers
- ☒ 1. Lactate
 - ☐ 2. 2-Phosphoglycerate
 - ☐ 3. Pyruvate
 - ☐ 4. Phosphoenolpyruvate

Question ID : 441009651377
Option 1 ID : 4410092559768
Option 2 ID : 4410092559767
Option 3 ID : 4410092559765
Option 4 ID : 4410092559766

Q. What is the full form of RAPD?

- Answers
- ☒ 1. Random Amplified Polymorphic DNA
 - ☐ 2. Random Amplified Principal DNA
 - ☐ 3. Random Axis Polymorphic DNA
 - ☐ 4. Relaxing Amplified Polymorphic DNA

Question ID : 441009650809
Option 1 ID : 4410092557493
Option 2 ID : 4410092557495
Option 3 ID : 4410092557494
Option 4 ID : 4410092557496

Q. Which scientist suggested the name polytene chromosome, due to the occurrence of many chromonemata (DNA) in them?

- Answers
- ☐ 1. H Bauer
 - ☒ 2. Kollar
 - ☐ 3. EG Balbiani
 - ☐ 4. Ernst Heitz

Question ID : 441009651385
Option 1 ID : 4410092559799
Option 2 ID : 4410092559798
Option 3 ID : 4410092559797
Option 4 ID : 4410092559800

Q. Which of the following are water soluble, heterogeneous branched polysaccharides that contain many negatively charged D-galacturonic acid residues along with D-glucuronic acid residues?

- Answers
- ☒ 1. Chitin
 - ☒ 2. Lignin
 - ☒ 3. Pectin
 - ☒ 4. Cellulose

Question ID : 441009651378
Option 1 ID : 4410092559770
Option 2 ID : 4410092559772
Option 3 ID : 4410092559771
Option 4 ID : 4410092559769

Q. Ribonuclease which cleaves phosphodiester bonds in a pyrimidine loci in 10 RNA, is a classical example of which mechanism of enzyme catalysis?

- Answers
- ☒ 1. Covalent catalysis
 - ☒ 2. Acid-base catalysis
 - ☒ 3. Substrate strain
 - ☒ 4. Entropy effects

Question ID : 441009651373
Option 1 ID : 4410092559749
Option 2 ID : 4410092559751
Option 3 ID : 4410092559752
Option 4 ID : 4410092559750

Q. The technique that involves amplification of DNA fragments using a primer, followed by separation of amplified fragments based on their size using gel electrophoresis is called:

- Answers
- ☒ 1. VNTR
 - ☒ 2. RFLP
 - ☒ 3. RAPD
 - ☒ 4. SNP

Question ID : 441009651188
Option 1 ID : 4410092559012
Option 2 ID : 4410092559010
Option 3 ID : 4410092559011
Option 4 ID : 4410092559009

Q. In which stage of mitosis are the chromosomes the shortest and thickest and 12 the kinetochores of the two sister chromatids facing opposite poles?

- Answers
- ☐ 1. Anaphase
 - ☐ 2. Telophase
 - ☐ 3. Prophase
 - ☒ 4. Metaphase

Question ID : 441009651390
Option 1 ID : 4410092559819
Option 2 ID : 4410092559820
Option 3 ID : 4410092559817
Option 4 ID : 4410092559818

Q. Which chromosomal aberration is most likely to produce a viable offspring, 13 while still causing notable phenotypic effects?

- Answers
- ☒ 1. Trisomy of chromosome 21
 - ☐ 2. Aneuploidy
 - ☐ 3. Complete tetraploidy
 - ☐ 4. Monosomy of an autosome

Question ID : 441009650921
Option 1 ID : 4410092557942
Option 2 ID : 4410092557943
Option 3 ID : 4410092557944
Option 4 ID : 4410092557941

Q. Which of the following hormones is most commonly associated with shoot 14 induction in plant tissue culture?

- Answers
- ☐ 1. Absciscic Acid (ABA)
 - ☒ 2. Cytokinin (BAP)
 - ☐ 3. Gibberellin (GA3)
 - ☐ 4. Auxin (IAA)

Question ID : 441009963054
Option 1 ID : 4410093805585
Option 2 ID : 4410093805584
Option 3 ID : 4410093805583
Option 4 ID : 4410093805582

Q. Which of the following steps is NOT involved in RFLP?

15

A ☒ 1. Polymerisation

ns

☒ 2. Restriction enzyme digestion

☒ 3. DNA extraction

☒ 4. Gel electrophoresis

Question ID : 441009650808

Option 1 ID : 4410092557492

Option 2 ID : 4410092557490

Option 3 ID : 4410092557489

Option 4 ID : 4410092557491

Q. The chromosomal region occupied by the nucleolus comprises a large number of rRNA synthesising genes; therefore, it was named as:

A ☒ 1. nucleolar organising region

ns

☒ 2. nuclear bodies

☒ 3. nucleoporins

☒ 4. nuclear pore complex

Question ID : 441009651399

Option 1 ID : 4410092559853

Option 2 ID : 4410092559856

Option 3 ID : 4410092559855

Option 4 ID : 4410092559854

Q. What are the primary biomolecules that make up cell membranes?

17

A ☒ 1. Carbohydrates

ns

☒ 2. Lipids

☒ 3. Nucleic acids

☒ 4. Proteins

Question ID : 441009651058

Option 1 ID : 4410092558490

Option 2 ID : 4410092558491

Option 3 ID : 4410092558492

Option 4 ID : 4410092558489

Q. Which of the following is NOT correct about Golgi body?

18

A ns ☒ 1. It principally performs the function of packaging materials.

☒ 2. Camillo Golgi first observed it.

☒ 3. The cis and the trans faces of the organelle are entirely similar.

☒ 4. It consists of many flat, disc-shaped cisternae.

Question ID : 441009965167

Option 1 ID : 4410093813939

Option 2 ID : 4410093813936

Option 3 ID : 4410093813938

Option 4 ID : 4410093813937

Q. The unique DNA profile of different human populations is contributed by:

19

A ns ☒ 1. SNPs, CNVs and VNTRs

☒ 2. CNVs and unique genes

☒ 3. SNPs and CNVs only

☒ 4. VNTRs, RFLPs and unique genes

Question ID : 441009651187

Option 1 ID : 4410092559007

Option 2 ID : 4410092559006

Option 3 ID : 4410092559005

Option 4 ID : 4410092559008

Q. Sears, one of the renowned plant scientists, isolated all 21 nullisomic states in which of the following plants?

A ns ☒ 1. Corn (Zea mays)

☒ 2. Berseem (Trifolium alexandrium)

☒ 3. Red clover (Trifolium retense)

☒ 4. Wheat (Triticum vulgare)

Question ID : 441009651386

Option 1 ID : 4410092559801

Option 2 ID : 4410092559803

Option 3 ID : 4410092559802

Option 4 ID : 4410092559804

Section : Discipline6

Q. Which of the following is the most practical approach to improve public health, especially addressing problems of nutritional deficiencies in general masses?

- Answers
- ☒ 1. Awareness Generation Programmes
 - ☒ 2. Mass scale Immunisation Programmes
 - ☒ 3. Breeding for Biofortification
 - ☒ 4. Breeding for Disease Resistance

Question ID : 441009650691
Option 1 ID : 4410092557023
Option 2 ID : 4410092557021
Option 3 ID : 4410092557024
Option 4 ID : 4410092557022

Q. What is one key advantage of molecular diagnostic techniques?

- Answers
- ☒ 1. Low sensitivity
 - ☒ 2. Long processing times
 - ☒ 3. Inaccurate results
 - ☒ 4. High specificity

Question ID : 441009650883
Option 1 ID : 4410092557789
Option 2 ID : 4410092557792
Option 3 ID : 4410092557791
Option 4 ID : 4410092557790

Q. In Recombinant DNA technology, purified DNA ultimately precipitates out after the addition of which of the following?

- Answers
- ☒ 1. Lysozyme
 - ☒ 2. Ribonuclease
 - ☒ 3. Protease
 - ☒ 4. Chilled ethanol

Question ID : 441009651344
Option 1 ID : 4410092559635
Option 2 ID : 4410092559633
Option 3 ID : 4410092559634
Option 4 ID : 4410092559636

Q. Which of the following adaptation occurs in xerophytes?

4

Answers

- ☒ 1. Root hairs and root caps are poorly developed.
- ☒ 2. Root hairs are poorly developed, and root caps are very well developed.
- ☒ 3. Root hairs and root caps are very well developed.
- ☒ 4. Root hairs are very well developed, and root caps are poorly developed.

Question ID : 441009650960

Option 1 ID : 4410092558099

Option 2 ID : 4410092558097

Option 3 ID : 4410092558098

Option 4 ID : 4410092558100

Q. What is a common symptom associated with immunodeficiency disorders?

5

Answers

- ☒ 1. Excessive bleeding
- ☒ 2. Frequent infections
- ☒ 3. Increased energy levels
- ☒ 4. Rapid weight gain

Question ID : 441009650912

Option 1 ID : 4410092557905

Option 2 ID : 4410092557906

Option 3 ID : 4410092557908

Option 4 ID : 4410092557907

Q. Which of the following statements is/are correct about the DNA vaccines?

6

Statement A: DNA vaccines induce both humoral and cell-mediated immunity.

Statement B: DNA vaccines cause prolonged expression of the antigen.

Answers

- ☒ 1. Neither Statement A nor Statement B
- ☒ 2. Only Statement B
- ☒ 3. Both Statements A and B
- ☒ 4. Only Statement A

Question ID : 441009965443

Option 1 ID : 4410093815031

Option 2 ID : 4410093815029

Option 3 ID : 4410093815030

Option 4 ID : 4410093815028

Q. Which of the following gases are produced during anaerobic digestion of
7 sludge, by anaerobic bacteria that digest the aerobic bacteria and the fungi?

- A ns
- ☒ 1. Methane, hydrogen sulphide and carbon dioxide
 - ☐ 2. Methane, hydrogen peroxide and carbon dioxide
 - ☐ 3. Methane, hydrogen sulphide and carbon mono-oxide
 - ☐ 4. Methane, sulphur dioxide and carbon mono-oxide

Question ID : 441009651349
Option 1 ID : 4410092559653
Option 2 ID : 4410092559654
Option 3 ID : 4410092559655
Option 4 ID : 4410092559656

Q. Monoclonal antibodies used in cancer therapy are primarily produced by
8 which technique?

- A ns
- ☐ 1. Somatic hybridization
 - ☐ 2. Gene therapy
 - ☒ 3. Hybridoma technology
 - ☐ 4. ELISA

Question ID : 441009963431
Option 1 ID : 4410093807058
Option 2 ID : 4410093807061
Option 3 ID : 4410093807059
Option 4 ID : 4410093807060

Q. What is the primary objective of vaccine safety testing?
9

- A ns
- ☒ 1. Ensure the vaccine is both safe and effective
 - ☐ 2. Reduce the cost of production
 - ☐ 3. Ensure the vaccine causes disease
 - ☐ 4. Improve the taste of vaccines

Question ID : 441009650881
Option 1 ID : 4410092557782
Option 2 ID : 4410092557783
Option 3 ID : 4410092557781
Option 4 ID : 4410092557784

Q. Which of the following restriction enzymes always cuts DNA molecules at a 10 particular point by recognising a specific sequence of six base pairs?

- Answers
- ☒ 1. Exonucleases
 - ☒ 2. Hind II
 - ☒ 3. Endonucleases
 - ☒ 4. BamHI

Question ID : 441009651342
Option 1 ID : 4410092559625
Option 2 ID : 4410092559628
Option 3 ID : 4410092559626
Option 4 ID : 4410092559627

Q. When plants regenerated from somatic hybrid cells contain full nuclear 11 genomes from both the fusion partners, they are called:

- Answers
- ☒ 1. somaclonal hybrids
 - ☒ 2. symmetric hybrids
 - ☒ 3. cybrids
 - ☒ 4. asymmetric hybrids

Question ID : 441009650690
Option 1 ID : 4410092557020
Option 2 ID : 4410092557018
Option 3 ID : 4410092557017
Option 4 ID : 4410092557019

Q. A method of producing thousands of plants through tissue culture wherein 12 each of these plants will be genetically identical to the original plant from which they were grown, i.e., they are somaclones, is called:

- Answers
- ☒ 1. agro-chemical based agriculture
 - ☒ 2. organic agriculture
 - ☒ 3. micro-propagation
 - ☒ 4. totipotency

Question ID : 441009651337
Option 1 ID : 4410092559608
Option 2 ID : 4410092559607
Option 3 ID : 4410092559605
Option 4 ID : 4410092559606

Q. Identify the nutrient cycle and the reservoir of nutrient, which shows little or 13 no permanent change in the distribution and abundance of the nutrient.

A ☒ 1. Phosphorous cycle and lithosphere
ns

☒ 2. Carbon cycle and atmosphere

☒ 3. Nitrogen cycle and lithosphere

☒ 4. Sulphur cycle and atmosphere

Question ID : 441009651160

Option 1 ID : 4410092558898

Option 2 ID : 4410092558897

Option 3 ID : 4410092558899

Option 4 ID : 4410092558900

Q. Which types of pests can be controlled using Bacillus thuringiensis (Bt)?

14

A ☒ 1. Weeds
ns

☒ 2. Fungi

☒ 3. Bacteria

☒ 4. Insects

Question ID : 441009651052

Option 1 ID : 4410092558465

Option 2 ID : 4410092558467

Option 3 ID : 4410092558468

Option 4 ID : 4410092558466

Q. Which technique is employed to overcome incompatibility barriers in wide 15 hybridization?

A ☒ 1. Double fertilization
ns

☒ 2. Protoplast fusion

☒ 3. Somaclonal variation

☒ 4. Apomixis

Question ID : 441009963113

Option 1 ID : 4410093805817

Option 2 ID : 4410093805815

Option 3 ID : 4410093805814

Option 4 ID : 4410093805816

Q. Which of the following is correct regarding the soma clonal variation?

16

- A ☒ 1. Citronella Java soma clone Bio-13 has high oil and soma clone variety Ratan has low BOAA.
- ☐ 2. Citronella Java soma clone Bio-13 has high oil and soma clone variety Ratan has high BOAA.
- ☐ 3. Citronella Java soma clone Bio-13 has low oil and soma clone variety Ratan has high BOAA.
- ☐ 4. Citronella Java soma clone Bio-13 has low oil and soma clone variety Ratan has low BOAA.

Question ID : 441009650819

Option 1 ID : 4410092557533

Option 2 ID : 4410092557535

Option 3 ID : 4410092557536

Option 4 ID : 4410092557534

Q. Which of the following techniques DOES NOT serve the purpose of early diagnosis?

- A ☒ 1. Gene Therapy
- ☐ 2. Enzyme Linked Immuno-sorbent Assay
- ☐ 3. Polymerase Chain Reaction
- ☐ 4. Recombinant DNA Technology

Question ID : 441009651327

Option 1 ID : 4410092559567

Option 2 ID : 4410092559568

Option 3 ID : 4410092559566

Option 4 ID : 4410092559565

Q. Which of the following fusogenic chemicals promotes protoplast fusion for the production of fusion products?

- A ☐ 1. Sulphur nitrate
- ☒ 2. Polyethylene glycol
- ☐ 3. Polyethylene glycerol
- ☐ 4. Calcium nitrate

Question ID : 441009651338

Option 1 ID : 4410092559609

Option 2 ID : 4410092559612

Option 3 ID : 4410092559611

Option 4 ID : 4410092559610

Q. In vaccine testing, what does the term 'adjuvant' refer to?

19

- A ns
- ☒ 1. A toxin in the vaccine
 - ☒ 2. A component that enhances the vaccine's effectiveness
 - ☒ 3. A virus used in the vaccine
 - ☒ 4. A preservative used in vaccines

Question ID : 441009651031

Option 1 ID : 4410092558382

Option 2 ID : 4410092558381

Option 3 ID : 4410092558384

Option 4 ID : 4410092558383

Q. What is the first step in the recombinant DNA process?

20

- A ns
- ☒ 1. Cutting the DNA with restriction enzymes
 - ☒ 2. Inserting the recombinant DNA into a host
 - ☒ 3. Amplifying the DNA
 - ☒ 4. Sequencing the DNA

Question ID : 441009651049

Option 1 ID : 4410092558454

Option 2 ID : 4410092558453

Option 3 ID : 4410092558455

Option 4 ID : 4410092558456

Section : Discipline7

Q. What does the presence of coliform bacteria in water samples indicate?

1

- A ns
- ☒ 1. Safe drinking water
 - ☒ 2. Biological contamination
 - ☒ 3. Low salinity
 - ☒ 4. High oxygen levels

Question ID : 441009651019

Option 1 ID : 4410092558333

Option 2 ID : 4410092558334

Option 3 ID : 4410092558336

Option 4 ID : 4410092558335

Q. Which gas or compound is primarily responsible for ozone depletion in the stratosphere?

Answer: ☒ 1. Chlorofluorocarbons (CFCs)

ns

☐ 2. Methane

☐ 3. Carbon dioxide

☐ 4. Hydrogen

Question ID : 441009650874

Option 1 ID : 4410092557754

Option 2 ID : 4410092557755

Option 3 ID : 4410092557753

Option 4 ID : 4410092557756

Q. What material is typically utilised for shielding against radiation exposure?

3

Answer: ☐ 1. Plastic

ns

☒ 2. Lead

☐ 3. Copper

☐ 4. Aluminium

Question ID : 441009650872

Option 1 ID : 4410092557747

Option 2 ID : 4410092557746

Option 3 ID : 4410092557748

Option 4 ID : 4410092557745

Q. Macrophages and T-cells use chemical signals to alert other T-cells and B-cells. These chemical signals are known as:

Answer: ☒ 1. cytokines

ns

☐ 2. secretin

☐ 3. bilirubin

☐ 4. biliverdin

Question ID : 441009650664

Option 1 ID : 4410092556914

Option 2 ID : 4410092556913

Option 3 ID : 4410092556916

Option 4 ID : 4410092556915

Q. How do CD8+ T cells contribute to the adaptive immune response against 5 viral infections?

- A ns
- ☒ 1. By directly killing infected cells
 - ☐ 2. By inducing inflammation
 - ☐ 3. By producing antibodies
 - ☐ 4. By activating CD4+ T cells

Question ID : 4410091004127
Option 1 ID : 4410093968101
Option 2 ID : 4410093968102
Option 3 ID : 4410093968099
Option 4 ID : 4410093968100

Q. Which remote sensing technique is most suitable for monitoring 6 groundwater potential zones in semi-arid regions?

- A ns
- ☐ 1. Thermal infrared remote sensing
 - ☒ 2. Optical multispectral remote sensing
 - ☐ 3. Synthetic Aperture Radar (SAR)
 - ☐ 4. LiDAR

Question ID : 441009963448
Option 1 ID : 4410093807129
Option 2 ID : 4410093807126
Option 3 ID : 4410093807127
Option 4 ID : 4410093807128

Q. Identify the biome which develops at habitats having mean annual 7 precipitation of 200-300 cm and mean annual temperature of 20-25°C.

- A ns
- ☒ 1. Tropical forest
 - ☐ 2. Coniferous forest
 - ☐ 3. Alpine tundra
 - ☐ 4. Desert

Question ID : 441009651158
Option 1 ID : 4410092558892
Option 2 ID : 4410092558890
Option 3 ID : 4410092558889
Option 4 ID : 4410092558891

Q. The T cells of an animal are activated only when the antigen is displayed on the surface of a cell that also possesses markers of the animal's own identity. These markers are proteins encoded by a cluster of genes called the:

- Answers
- ☒ 1. hepatic portal system
 - ☒ 2. major histocompatibility complex
 - ☒ 3. hypophyseal portal system
 - ☒ 4. juxtaglomerular complex

Question ID : 441009650901
Option 1 ID : 4410092557863
Option 2 ID : 4410092557861
Option 3 ID : 4410092557864
Option 4 ID : 4410092557862

Q. Surra disease of horse have causative organism *Trypanosoma evansi* and is spread by which of the following insect vectors?

- Answers
- ☒ 1. *Phlebotomus*
 - ☒ 2. *Pediculus*
 - ☒ 3. *Tabanus*
 - ☒ 4. *Xenopsylla*

Question ID : 441009650896
Option 1 ID : 4410092557843
Option 2 ID : 4410092557841
Option 3 ID : 4410092557842
Option 4 ID : 4410092557844

Q. There is a zone of transition, in which the conditions for each of the adjacent communities become more adverse, and there is usually intermixing of species from both the communities. Such region presenting a situation of special ecological interest known as _____.

- Answers
- ☒ 1. ecotone
 - ☒ 2. national park
 - ☒ 3. ecosystem
 - ☒ 4. community

Question ID : 441009650926
Option 1 ID : 4410092557964
Option 2 ID : 4410092557963
Option 3 ID : 4410092557961
Option 4 ID : 4410092557962

Q. Reduviid bug is a biological vector for which disease?

11

- A ns
- ☐ 1. Plague
 - ☐ 2. Leprosy
 - ☐ 3. Kala azar
 - ☒ 4. Chagas

Question ID : 441009965532

Option 1 ID : 4410093815378

Option 2 ID : 4410093815379

Option 3 ID : 4410093815377

Option 4 ID : 4410093815376

Q. Which of the following antibody classes is most effective in activating the classical complement pathway?

12

- A ns
- ☐ 1. IgE
 - ☒ 2. IgM
 - ☐ 3. IgG4
 - ☐ 4. IgA

Question ID : 441009963472

Option 1 ID : 4410093807224

Option 2 ID : 4410093807225

Option 3 ID : 4410093807222

Option 4 ID : 4410093807223

Q. Which of the following is considered a natural cause of water pollution?

13

- A ns
- ☐ 1. Industrial discharge
 - ☐ 2. Plastic waste
 - ☐ 3. Sewage disposal
 - ☒ 4. Erosion and sedimentation

Question ID : 441009651023

Option 1 ID : 4410092558349

Option 2 ID : 4410092558352

Option 3 ID : 4410092558350

Option 4 ID : 4410092558351

Q. A species which shows 30-50% of population decline with its occurrence in a geographical area less than 20,000 km², then it is listed as which of the following?

- Answers
- ☒ 1. Near Threatened Species
 - ☒ 2. Vulnerable Species
 - ☒ 3. Critically Endangered Species
 - ☒ 4. Endangered Species

Question ID : 441009650682
Option 1 ID : 4410092556986
Option 2 ID : 4410092556985
Option 3 ID : 4410092556988
Option 4 ID : 4410092556987

Q. Which of the following air pollutants covers leaf surfaces and reduces photosynthetic capacity of plants?

- Answers
- ☒ 1. Fluorides
 - ☒ 2. Carbon mono-oxide
 - ☒ 3. Hydrocarbons
 - ☒ 4. Smoke and dust

Question ID : 441009651306
Option 1 ID : 4410092559482
Option 2 ID : 4410092559483
Option 3 ID : 4410092559481
Option 4 ID : 4410092559484

Q. Which of the following is a work element of In situ conservation?

- Answers
- ☒ 1. Tissue culture
 - ☒ 2. Banks for germ plasm
 - ☒ 3. Establish botanical gardens
 - ☒ 4. Establish protected area network

Question ID : 441009650925
Option 1 ID : 4410092557959
Option 2 ID : 4410092557958
Option 3 ID : 4410092557957
Option 4 ID : 4410092557960

Q. What is the most effective method to prevent water pollution?

17

- A ns
- ☒ 1. Reducing the use of biodegradable plastics
 - ☒ 2. Increasing deforestation
 - ☒ 3. Treating industrial waste before discharge
 - ☒ 4. Dumping waste into oceans

Question ID : 441009650868

Option 1 ID : 4410092557732

Option 2 ID : 4410092557731

Option 3 ID : 4410092557730

Option 4 ID : 4410092557729

Q. Which gaseous pollutant in atmosphere contributes to the formation of secondary pollutants?

A ns

- ☒ 1. Nitrogen dioxide
- ☒ 2. Carbon dioxide
- ☒ 3. Ozone
- ☒ 4. Methane

Question ID : 441009650877

Option 1 ID : 4410092557766

Option 2 ID : 4410092557765

Option 3 ID : 4410092557767

Option 4 ID : 4410092557768

Q. Which of the following pairs is INCORRECTLY matched with respect to innate and adaptive immunity?

- A ns
- ☒ 1. T-lymphocyte cells – Adaptive immunity
 - ☒ 2. Natural killer (NK) cells – Innate immunity
 - ☒ 3. Skin and mucous membranes – Adaptive immunity
 - ☒ 4. Memory response – Adaptive immunity

Question ID : 441009949010

Option 1 ID : 4410093749511

Option 2 ID : 4410093749513

Option 3 ID : 4410093749512

Option 4 ID : 4410093749514

Q. _____ is the type of antibodies which cause aggregation of antigen 20 molecules leading to the formation of a precipitate.

- Ans
- ☒ 1. Complement
 - ☒ 2. Antitoxin
 - ☒ 3. Precipitin
 - ☒ 4. Opsonins

Question ID : 441009650904
Option 1 ID : 4410092557876
Option 2 ID : 4410092557873
Option 3 ID : 4410092557874
Option 4 ID : 4410092557875

Section : Discipline8

Q. Which type of placenta is present in Ungulates with villi scattered all over the 1 surface of chorion?

- Ans
- ☒ 1. Discoidal type
 - ☒ 2. Diffused type
 - ☒ 3. Cotyledonary type
 - ☒ 4. Zonary type

Question ID : 441009650880
Option 1 ID : 4410092557780
Option 2 ID : 4410092557777
Option 3 ID : 4410092557778
Option 4 ID : 4410092557779

Q. The fertilised female of *Periplaneta americana* lays eggs which are enclosed 2 in a bag like structure called:

- Ans
- ☒ 1. ootheca
 - ☒ 2. pupa
 - ☒ 3. hive
 - ☒ 4. cocoon

Question ID : 441009650866
Option 1 ID : 4410092557723
Option 2 ID : 4410092557722
Option 3 ID : 4410092557724
Option 4 ID : 4410092557721

Q. What is the precocious development of gonads in a larval body referred to as?

- Answers
- ☐ 1. Caterpillars
 - ☐ 2. Moulting
 - ☒ 3. Paedogenesis
 - ☐ 4. Neoteny

Question ID : 441009650642
Option 1 ID : 4410092556828
Option 2 ID : 4410092556827
Option 3 ID : 4410092556826
Option 4 ID : 4410092556825

Q. Which of the following is an example of neoteny?

- Answers
- ☒ 1. The axolotl (*Ambystoma mexicanum*) retaining its gills in adulthood
 - ☐ 2. The development of a frog from a tadpole
 - ☐ 3. The transformation of a caterpillar into a butterfly
 - ☐ 4. The metamorphosis of a moth

Question ID : 4410091007252
Option 1 ID : 4410093980620
Option 2 ID : 4410093980619
Option 3 ID : 4410093980618
Option 4 ID : 4410093980621

Q. During mammalian fertilisation, which event ensures that only one sperm fuses with the oocyte?

- Answers
- ☐ 1. Acrosomal reaction
 - ☐ 2. Capacitation
 - ☐ 3. Cortical reaction
 - ☒ 4. Zona hatching

Question ID : 441009989477
Option 1 ID : 4410093910161
Option 2 ID : 4410093910163
Option 3 ID : 4410093910162
Option 4 ID : 4410093910164

Q. Which of the following genes is associated with the formation of limbs and 6 digit patterning in humans?

A ☒ 1. Shh (Sonic Hedgehog)

ns

☒ 2. Tbx5

☒ 3. FGFR2

☒ 4. Wnt3a

Question ID : 441009650700

Option 1 ID : 4410092557059

Option 2 ID : 4410092557060

Option 3 ID : 4410092557057

Option 4 ID : 4410092557058

Q. When disease resistance in a plant is conferred by mostly a single gene or 7 sometimes by a few genes, so that the host plant possesses one or a few major resistance genes for a pathogen, then it is called:

A ☒ 1. vertical resistance

ns

☒ 2. horizontal resistance

☒ 3. selective resistance

☒ 4. partial resistance

Question ID : 441009650670

Option 1 ID : 4410092556939

Option 2 ID : 4410092556937

Option 3 ID : 4410092556938

Option 4 ID : 4410092556940

Q. Which of the following is NOT a factor affecting animal food habits?

8

A ☒ 1. Climate change

ns

☒ 2. Colour of the animal

☒ 3. Availability of food sources

☒ 4. Social structure

Question ID : 441009650711

Option 1 ID : 4410092557102

Option 2 ID : 4410092557104

Option 3 ID : 4410092557101

Option 4 ID : 4410092557103

Q. Which of the following is physically an aerator, crusher and mixer, chemically a degrader and biologically a stimulator in the decomposer subsystem?

- Answers
- ☒ 1. Mosquito
 - ☒ 2. Fungi
 - ☒ 3. House fly
 - ☒ 4. Earthworm

Question ID : 441009650893
Option 1 ID : 4410092557832
Option 2 ID : 4410092557829
Option 3 ID : 4410092557831
Option 4 ID : 4410092557830

Q. The migration of cells of organ-specific areas from the surface of blastula to their progressive positions is the most important event of gastrulation. These movement of cells are described as:

- Answers
- ☒ 1. emigration movements
 - ☒ 2. immigration movements
 - ☒ 3. morphogenetic movements
 - ☒ 4. migration movements

Question ID : 441009650891
Option 1 ID : 4410092557824
Option 2 ID : 4410092557822
Option 3 ID : 4410092557821
Option 4 ID : 4410092557823

Q. Which of the following sources of natural resources is considered renewable and has significant use in human welfare, especially for generating clean energy?

- Answers
- ☒ 1. Natural gas
 - ☒ 2. Solar energy
 - ☒ 3. Coal
 - ☒ 4. Petroleum

Question ID : 441009651094
Option 1 ID : 4410092558634
Option 2 ID : 4410092558635
Option 3 ID : 4410092558633
Option 4 ID : 4410092558636

Q. Which of the following order organisms having forewings thickened at base, 12 membranous at tip with piercing-sucking type of mouth parts?

A ☒ 1. Hemiptera

ns

☐ 2. Gnathobdellida

☐ 3. Decapoda

☐ 4. Opisthoptera

Question ID : 441009650647

Option 1 ID : 4410092556847

Option 2 ID : 4410092556848

Option 3 ID : 4410092556845

Option 4 ID : 4410092556846

Q. Which of the following are the class and the causal organism of the brown 13 leaf spot disease of rice?

A ☒ 1. Ascomycetes and Cochliobolus miyabeanus

ns

☐ 2. Basidiomycetes and Ustilaginoidea purpureus

☐ 3. Basidiomycetes and Villosiclava virens

☐ 4. Ascomycetes and Venturia inaequalis

Question ID : 441009650671

Option 1 ID : 4410092556942

Option 2 ID : 4410092556943

Option 3 ID : 4410092556941

Option 4 ID : 4410092556944

Q. In many spirally cleaving eggs of annelids, molluscs and nemerteans, no 14 blastocoelic cavity appears in the blastula. This type of blastula is called:

A ☐ 1. superficial blastula

ns

☒ 2. stereoblastula

☐ 3. amphiblastula

☐ 4. blastocyst

Question ID : 441009650660

Option 1 ID : 4410092556899

Option 2 ID : 4410092556897

Option 3 ID : 4410092556898

Option 4 ID : 4410092556900

Q. A common medical and veterinary phenomenon is the invasion of body tissues by dipterous larvae of various kinds. Such invasions are generically called:

- Answers
- ☒ 1. Ascariasis
 - ☒ 2. Myiasis
 - ☒ 3. Lyme disease
 - ☒ 4. Trichuriasis

Question ID : 441009650857
Option 1 ID : 4410092557686
Option 2 ID : 4410092557687
Option 3 ID : 4410092557685
Option 4 ID : 4410092557688

Q. What is the defining characteristic of a totipotent cell?
16

- Answers
- ☒ 1. Can only differentiate into embryonic tissues
 - ☒ 2. Can differentiate into any cell type except placental cells
 - ☒ 3. Can differentiate into any cell type, including placental cells
 - ☒ 4. Can only replicate without differentiating

Question ID : 441009650702
Option 1 ID : 4410092557066
Option 2 ID : 4410092557065
Option 3 ID : 4410092557067
Option 4 ID : 4410092557068

Q. Which of the following orders is known for having the largest number of described species?
17

- Answers
- ☒ 1. Coleoptera
 - ☒ 2. Lepidoptera
 - ☒ 3. Diptera
 - ☒ 4. Hymenoptera

Question ID : 441009650698
Option 1 ID : 4410092557050
Option 2 ID : 4410092557049
Option 3 ID : 4410092557051
Option 4 ID : 4410092557052

Q. Which of the following medicines is banned due to its side-effect of 18 malformation of limbs of new born babies, when consumed by pregnant women?

- Answers
- ☐ 1. Didanosine
 - ☐ 2. Zidovudine
 - ☐ 3. Stavudine
 - ☒ 4. Thalidomide

Question ID : 441009650659
Option 1 ID : 4410092556896
Option 2 ID : 4410092556894
Option 3 ID : 4410092556895
Option 4 ID : 4410092556893

Q. Which of the following roles is typically performed by a worker honeybee in a hive?

- Answers
- ☐ 1. Producing nectar
 - ☐ 2. Laying eggs
 - ☒ 3. Defending the hive
 - ☐ 4. Doing nothing

Question ID : 441009651091
Option 1 ID : 4410092558622
Option 2 ID : 4410092558621
Option 3 ID : 4410092558623
Option 4 ID : 4410092558624

Q. What conditions are optimal for earthworm survival in a vermicomposting system?

- Answers
- ☐ 1. Constant sunlight and dry conditions
 - ☐ 2. High salinity and fluctuating temperatures
 - ☐ 3. High acidity and low moisture
 - ☒ 4. Temperature between 10°C and 25°C, and moisture levels around 70-80%

Question ID : 441009650706
Option 1 ID : 4410092557083
Option 2 ID : 4410092557084
Option 3 ID : 4410092557081
Option 4 ID : 4410092557082

Section : Discipline9

Q. A DNA microarray is an arrayed set of microscopic DNA oligonucleotide
1 spots, or features, where each feature has millions of copies of picomoles of
a certain, unique sequence. What is the name of this feature?

- Answers
- ☒ 1. Gene chips
 - ☒ 2. Genome chips
 - ☒ 3. DNA chips
 - ☒ 4. DNA probe

Question ID : 441009651288
Option 1 ID : 4410092559409
Option 2 ID : 4410092559410
Option 3 ID : 4410092559411
Option 4 ID : 4410092559412

Q. Grouped data can be represented graphically in many ways. In which of the
2 following are the values of the variable for ungrouped data taken as
abscissae and their frequencies taken as ordinates?

- Answers
- ☒ 1. Relative frequency map
 - ☒ 2. Frequency polygon
 - ☒ 3. Scattered diagram
 - ☒ 4. Histogram

Question ID : 441009651242
Option 1 ID : 4410092559227
Option 2 ID : 4410092559226
Option 3 ID : 4410092559228
Option 4 ID : 4410092559225

Q. Which method is commonly employed for predicting protein secondary
3 structures?

- Answers
- ☒ 1. Chou-Fasman algorithm
 - ☒ 2. Cryo-electron microscopy
 - ☒ 3. X-ray crystallography
 - ☒ 4. NMR spectroscopy

Question ID : 441009650985
Option 1 ID : 4410092558199
Option 2 ID : 4410092558200
Option 3 ID : 4410092558197
Option 4 ID : 4410092558198

Q. Which of the following types of chromatography is used for the separation and purification of volatile components?

- Answers
- ☒ 1. Gas chromatography
 - ☐ 2. Affinity chromatography
 - ☐ 3. High performance liquid chromatography
 - ☐ 4. Gel filtration chromatography

Question ID : 441009965656
Option 1 ID : 4410093815865
Option 2 ID : 4410093815866
Option 3 ID : 4410093815864
Option 4 ID : 4410093815867

Q. Which of the following is INCORRECT regarding the important components of a biosensor?

- Answers
- ☒ 1. A power generator
 - ☐ 2. A reaction centre
 - ☐ 3. A transducer
 - ☐ 4. An amplifier

Question ID : 441009651293
Option 1 ID : 4410092559432
Option 2 ID : 4410092559429
Option 3 ID : 4410092559430
Option 4 ID : 4410092559431

Q. Which of the following body fluids is found in the space between the membrane that separates the chest and lungs?

- Answers
- ☐ 1. Synovial fluid
 - ☐ 2. Pericardial fluid
 - ☐ 3. Peritoneal fluid
 - ☒ 4. Pleural fluid

Question ID : 441009651253
Option 1 ID : 4410092559272
Option 2 ID : 4410092559270
Option 3 ID : 4410092559269
Option 4 ID : 4410092559271

Q. Which of the following statements is INCORRECT for 'Merits of Arithmetic Mean'?

A ☒ 1. It is very much affected by extreme observation.

ns

☐ 2. Arithmetic mean provides the base of many other methods of statistics.

☐ 3. It is rightly defined and is an easy and ideal measure of central tendency.

☐ 4. It covers all the observations and is easy to calculate and understand.

Question ID : 441009651239

Option 1 ID : 4410092559215

Option 2 ID : 4410092559216

Option 3 ID : 4410092559213

Option 4 ID : 4410092559214

Q. Electrodes or electrode-like devices are currently being developed for the specific measurement of physiologically important molecules such as urea, carbohydrates, enzymes, antibodies and metabolic products; this refers to which of the following biotechniques?

A ☐ 1. Electrophoresis

ns

☐ 2. Chromatography

☒ 3. Biosensors

☐ 4. Centrifugation

Question ID : 441009651294

Option 1 ID : 4410092559434

Option 2 ID : 4410092559435

Option 3 ID : 4410092559433

Option 4 ID : 4410092559436

Q. Which test is utilised to compare the means of two independent samples?

A ☐ 1. F-test

ns

☐ 2. Chi-square test

☐ 3. U-test

☒ 4. T-test

Question ID : 441009650996

Option 1 ID : 4410092558242

Option 2 ID : 4410092558243

Option 3 ID : 4410092558244

Option 4 ID : 4410092558241

Q. What types of agents are indicated by the presence of hyphae in a sample?

10

- A ns
- ☒ 1. Fungi
 - ☐ 2. Bacteria
 - ☐ 3. Viruses
 - ☐ 4. Protozoa

Question ID : 441009651001
Option 1 ID : 4410092558263
Option 2 ID : 4410092558261
Option 3 ID : 4410092558262
Option 4 ID : 4410092558264

Q. In a perfectly symmetrical distribution, which measure of central tendency will have the same value?

- A ns
- ☐ 1. Median only
 - ☒ 2. Mean, Median, and Mode
 - ☐ 3. Range and Mode
 - ☐ 4. Mean only

Question ID : 441009650993
Option 1 ID : 4410092558230
Option 2 ID : 4410092558231
Option 3 ID : 4410092558232
Option 4 ID : 4410092558229

Q. Which of the following statements is INCORRECT regarding Z-test?

12

- A ns
- ☐ 1. It is one of the tests of significance and used to compare the estimated mean with a given mean in larger samples (number more than 30) in a normal distribution of population.
 - ☐ 2. It is called relative or standard normal deviate and is given the symbol Z.
 - ☒ 3. It is used for testing the significance of an observed sample correlation ratio.
 - ☐ 4. It is measured in terms of the standard deviation and indicates how much an observation is bigger or smaller than mean in units of standard deviation; so Z, will be a ratio.

Question ID : 441009651232
Option 1 ID : 4410092559185
Option 2 ID : 4410092559187
Option 3 ID : 4410092559186
Option 4 ID : 4410092559188

Q. Which of the following statements is INCORRECT regarding Transmission Electron Microscopes (TEM)?

- A ns
- ☒ 1. It has been exploited most widely in the examination of the internal structure of cells.
 - ☒ 2. It forms images using electrons that are transmitted through a specimen.
 - ☒ 3. The transmission electron microscope can provide vastly greater resolution than the light microscope.
 - ☒ 4. The construction and operation of the TEM are very similar to that of the SEM (scanning electron microscope).

Question ID : 441009651286

Option 1 ID : 4410092559401

Option 2 ID : 4410092559402

Option 3 ID : 4410092559403

Option 4 ID : 4410092559404

Q. Which of the following is a primary database for nucleotide sequences?

14

- A ns
- ☒ 1. EMBL
 - ☒ 2. PIR
 - ☒ 3. PDB
 - ☒ 4. SWISS-PROT

Question ID : 441009650842

Option 1 ID : 4410092557626

Option 2 ID : 4410092557628

Option 3 ID : 4410092557625

Option 4 ID : 4410092557627

Q. Which of the following measures the distribution of data around the mean value?

- A ns
- ☒ 1. Standard deviation
 - ☒ 2. Mode
 - ☒ 3. Frequency
 - ☒ 4. Median

Question ID : 441009650999

Option 1 ID : 4410092558254

Option 2 ID : 4410092558253

Option 3 ID : 4410092558256

Option 4 ID : 4410092558255

Q. Which of the following conditions is least likely to influence the erythrocyte sedimentation rate (ESR)?

- Ans
- ☒ 1. Diabetes
 - ☐ 2. Tuberculosis
 - ☐ 3. Pregnancy
 - ☐ 4. Rheumatoid arthritis

Question ID : 441009650850
Option 1 ID : 4410092557660
Option 2 ID : 4410092557658
Option 3 ID : 4410092557659
Option 4 ID : 4410092557657

Q. Which of the following methods is most commonly used to identify parasitic pathogens?

- Ans
- ☒ 1. Stool examination
 - ☐ 2. Gram staining
 - ☐ 3. PCR
 - ☐ 4. Blood culture

Question ID : 441009650847
Option 1 ID : 4410092557646
Option 2 ID : 4410092557648
Option 3 ID : 4410092557647
Option 4 ID : 4410092557645

Q. What is the purpose of using dideoxynucleotides (ddNTPs) in Sanger sequencing?

- Ans
- ☐ 1. To amplify DNA
 - ☒ 2. To terminate DNA synthesis at specific bases
 - ☐ 3. To cut the DNA into fragments
 - ☐ 4. To label the DNA with a fluorescent tag

Question ID : 441009651015
Option 1 ID : 4410092558317
Option 2 ID : 4410092558318
Option 3 ID : 4410092558320
Option 4 ID : 4410092558319

Q. What is the composition of Carnoy's fluid, a fixative used in cytogenetics?

19

A ☒ 1. Methanol and formaldehyde

ns

☒ 2. Ethanol and glacial acetic acid

☒ 3. Glutaraldehyde and phosphate buffer

☒ 4. Methanol and acetic acid

Question ID : 4410091007322

Option 1 ID : 4410093980946

Option 2 ID : 4410093980944

Option 3 ID : 4410093980945

Option 4 ID : 4410093980943

Q. What does a normal ESR value in adults typically indicate?

20

A ☒ 1. Cancer

ns

☒ 2. Absence of disease

☒ 3. Inflammation

☒ 4. Severe infection

Question ID : 441009651006

Option 1 ID : 4410092558284

Option 2 ID : 4410092558282

Option 3 ID : 4410092558281

Option 4 ID : 4410092558283

Section : Teaching Methodology

Q. What is selective listening?

1

A ☒ 1. Listening with full attention

ns

☒ 2. Listening to gain empathy

☒ 3. Ignoring the speaker completely

☒ 4. Listening and retaining only parts of a speech

Question ID : 441009918279

Option 1 ID : 4410093627107

Option 2 ID : 4410093627104

Option 3 ID : 4410093627106

Option 4 ID : 4410093627105

Q. According to Joseph Novak, how is new knowledge constructed, based on 2 the learner's prior experiences?

- Answers
- ☒ 1. Through relationships between previous and current experiences
 - ☐ 2. Only through textbooks and by giving notes
 - ☐ 3. Through emotional discipline of the child
 - ☐ 4. Only through rote memorisation

Question ID : 441009924451
Option 1 ID : 4410093651949
Option 2 ID : 4410093651951
Option 3 ID : 4410093651950
Option 4 ID : 4410093651948

Q. Which assessment is used continuously by teachers in the teaching learning 3 process by providing descriptive feedback?

- Answers
- ☐ 1. Assessment by learning
 - ☐ 2. Assessment as learning
 - ☒ 3. Assessment for learning
 - ☐ 4. Assessment of learning

Question ID : 441009993476
Option 1 ID : 4410093926005
Option 2 ID : 4410093926006
Option 3 ID : 4410093926004
Option 4 ID : 4410093926003

Q. The Broadfields approach attempts to: 4

- Answers
- ☐ 1. eliminate all subject-based learning
 - ☐ 2. focus on social awareness only
 - ☒ 3. integrate related subject matter into a unified course
 - ☐ 4. separate subjects into narrow disciplines

Question ID : 441009936113
Option 1 ID : 4410093698210
Option 2 ID : 4410093698209
Option 3 ID : 4410093698208
Option 4 ID : 4410093698207

Q. What is the basic unit or structure of the mind called?

5

- A ns
- ☒ 1. Reflex
 - ☒ 2. Neuron
 - ☒ 3. Schema
 - ☒ 4. Stimulus

Question ID : 441009924189

Option 1 ID : 4410093650912

Option 2 ID : 4410093650915

Option 3 ID : 4410093650914

Option 4 ID : 4410093650913

Q. What is the primary goal of content analysis in teaching?

6

- A ns
- ☒ 1. To create new textbooks
 - ☒ 2. To simplify and present textbook content meaningfully
 - ☒ 3. To reduce textbook cost
 - ☒ 4. To make exams easier

Question ID : 441009925410

Option 1 ID : 4410093655768

Option 2 ID : 4410093655767

Option 3 ID : 4410093655766

Option 4 ID : 4410093655765

Q. How does a constructivist teacher promote learner inquiry?

7

- A ns
- ☒ 1. By handing out multiple-choice tests
 - ☒ 2. Through open-ended questioning and promoting learner-generated questions
 - ☒ 3. By telling students to memorise answers
 - ☒ 4. By assigning textbook readings only

Question ID : 441009924491

Option 1 ID : 4410093652106

Option 2 ID : 4410093652105

Option 3 ID : 4410093652107

Option 4 ID : 4410093652104

Q. What is defined as the spontaneous acting of roles in the context of clearly defined social situation(s) by two or more persons for subsequent discussions by the whole class?

- Answers
- ☐ 1. Panel discussion
 - ☐ 2. Debate
 - ☐ 3. Project method
 - ☒ 4. Role play

Question ID : 441009918049
Option 1 ID : 4410093626254
Option 2 ID : 4410093626253
Option 3 ID : 4410093626255
Option 4 ID : 4410093626252

Q. Under which Act, is maintaining a central rehabilitation register of all qualified professionals and personnel working in the field of rehabilitation and special needs, mandatory?

- Answers
- ☐ 1. The Mental Health Act, 1987
 - ☐ 2. National Trust Act, 1999
 - ☒ 3. Rehabilitation Council of India Act, 1992
 - ☐ 4. Rights of Persons with Disabilities Act, 2016

Question ID : 441009993605
Option 1 ID : 4410093926513
Option 2 ID : 4410093926515
Option 3 ID : 4410093926514
Option 4 ID : 4410093926512

Q. Which category of children is identified as 'educable' under the IEDC 10 scheme?

- Answers
- ☐ 1. Cerebral palsy
 - ☐ 2. Hearing impaired
 - ☐ 3. Blind
 - ☒ 4. Mentally retarded

Question ID : 441009924156
Option 1 ID : 4410093650784
Option 2 ID : 4410093650785
Option 3 ID : 4410093650787
Option 4 ID : 4410093650786

Q. One important aspect while selecting material resources is ensuring:

11

A ☒ 1. that local language is avoided

ns

☒ 2. cultural specificity and absence of bias

☒ 3. use of expensive brands only

☒ 4. maximum colour and decoration

Question ID : 441009936028

Option 1 ID : 4410093697859

Option 2 ID : 4410093697860

Option 3 ID : 4410093697861

Option 4 ID : 4410093697858

Q. In a textbook, which of the following can be an example of a stereotypical behaviour cue given to boys?

A ☒ 1. "Be artistic."

ns

☒ 2. "Respect nature."

☒ 3. "Always share."

☒ 4. "Big boys do not cry."

Question ID : 441009922964

Option 1 ID : 4410093645997

Option 2 ID : 4410093646000

Option 3 ID : 4410093645999

Option 4 ID : 4410093645998

Q. Teacher's ongoing observation, and monitoring of students' learning while they teach, informs them about what to do next. Which type of assessment is this?

A ☒ 1. Summative assessment

ns

☒ 2. Formative assessment

☒ 3. Norm assessment

☒ 4. Generic assessment

Question ID : 441009993484

Option 1 ID : 4410093926037

Option 2 ID : 4410093926034

Option 3 ID : 4410093926035

Option 4 ID : 4410093926036

Q. Content analysis promotes learning that is:

14

A ☒ 1. systematic and meaningful

ns

☐ 2. abstract and difficult

☐ 3. emotional and irrational

☐ 4. passive and repetitive

Question ID : 441009925417

Option 1 ID : 4410093655795

Option 2 ID : 4410093655793

Option 3 ID : 4410093655794

Option 4 ID : 4410093655796

Q. Which of the following is a teacher-centred teaching method?

15

A ☐ 1. Role play

ns

☐ 2. Seminar

☐ 3. Project-based method

☒ 4. Lecture

Question ID : 441009917989

Option 1 ID : 4410093626014

Option 2 ID : 4410093626013

Option 3 ID : 4410093626015

Option 4 ID : 4410093626016

Q. Which of the following is a form of discussion that includes a systematic presentation of papers or speeches concerning a problem or various aspects of a problem or topic?

16

A ☐ 1. Roundtable

ns

☐ 2. Debate

☒ 3. Symposium

☐ 4. Panel discussion

Question ID : 441009918019

Option 1 ID : 4410093747981

Option 2 ID : 4410093626135

Option 3 ID : 4410093626133

Option 4 ID : 4410093626134

Q. In many curricula, girls are stereotyped as being:

17

Answers

- ☒ 1. technical and commanding
- ☒ 2. delicate and aesthetically inclined
- ☒ 3. athletic and assertive
- ☒ 4. rational and unemotional

Question ID : 441009925170

Option 1 ID : 4410093654810

Option 2 ID : 4410093654812

Option 3 ID : 4410093654813

Option 4 ID : 4410093654811

Q. In a constructivist classroom, the role of the teacher is primarily a/an:

18

Answers

- ☒ 1. knowledge transmitter
- ☒ 2. disciplinarian
- ☒ 3. evaluator
- ☒ 4. facilitator

Question ID : 441009918170

Option 1 ID : 4410093626680

Option 2 ID : 4410093626681

Option 3 ID : 4410093626683

Option 4 ID : 4410093626682

Q. Individual differences help in:

19

Answers

- ☒ 1. focussing on the smart students
- ☒ 2. planning the course material
- ☒ 3. neglecting the students
- ☒ 4. exclusion of some students from the classroom

Question ID : 4410091001284

Option 1 ID : 4410093956913

Option 2 ID : 4410093956914

Option 3 ID : 4410093956912

Option 4 ID : 4410093956915

Q. What of the following is NOT a purpose of role play?

20

A ☒ 1. To disturb social harmony

ns

☐ 2. To communicate the message in an interesting way

☐ 3. To develop empathy

☐ 4. To promote understanding about the situation

Question ID : 4410091001361

Option 1 ID : 4410093957214

Option 2 ID : 4410093957213

Option 3 ID : 4410093957211

Option 4 ID : 4410093957212