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Scientific Asst.
27 Jul, 2024 Shift 2



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Participant ID	
Participant Name	
Test Center Name	
Test Date	27/07/2024
Test Time	12:30 PM - 2:30 PM
Subject	SCIENTIFIC ASSISTANT

Section : General Intelligence and Reasoning Ability

Q.1 What should come in place of the question mark (?) in the given series?
 36 47 69 102 146 ?

Ans

- 1. 210
- 2. 205
- 3. 201
- 4. 207

Question ID : [630680799683](#)
 Option 1 ID : [6306803133529](#)
 Option 2 ID : [6306803133532](#)
 Option 3 ID : [6306803133530](#)
 Option 4 ID : [6306803133531](#)

Q.2 What should come in place of the question mark (?) in the following series?
 19 20 40 43 172 ?

Ans

- 1. 175
- 2. 181
- 3. 177
- 4. 184

Question ID : [630680500580](#)
 Option 1 ID : [6306801955910](#)
 Option 2 ID : [6306801955912](#)
 Option 3 ID : [6306801955911](#)
 Option 4 ID : [6306801955913](#)

Q.3 If + means -, - means x, x means ÷ and ÷ means +, then what will come in place of the question mark (?) in the following equation?
 $12 - 22 \div 24 \times 8 + 29 = ?$

Ans

- 1. 218
- 2. 244
- 3. 238
- 4. 226

Question ID : [630680392660](#)
 Option 1 ID : [6306801530978](#)
 Option 2 ID : [6306801530981](#)
 Option 3 ID : [6306801530979](#)
 Option 4 ID : [6306801530980](#)

Q.4 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

S has an exam on Friday. Exactly 3 people have an exam between U and Q, neither of whom has an exam on Sunday. P has an exam immediately after T. V has an exam immediately before Q. How many people have an exam between V and S?

Ans 1. 3
 2. 2
 3. 4
 4. 1

Question ID :	630680410785
Option 1 ID :	6306801601897
Option 2 ID :	6306801601896
Option 3 ID :	6306801601898
Option 4 ID :	6306801601895

Q.5 In a certain code language,
 'A \$ B' means 'A is the father of B',
 'A @ B' means 'A is the mother of B',
 'A + B' means 'A is the son of B',
 'A ^ B' means 'A is the daughter of B',
 'A % B' means 'A is the husband of B', and
 'A ! B' means 'A is the sister of B'.
 How is A related to Q if 'E ! D @ Q + C + B % A'?

Ans 1. Mother's mother
 2. Father's father
 3. Father's mother
 4. Mother

Question ID :	630680519608
Option 1 ID :	6306802030859
Option 2 ID :	6306802030857
Option 3 ID :	6306802030858
Option 4 ID :	6306802030856

Q.6 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.


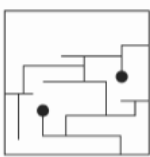
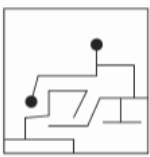
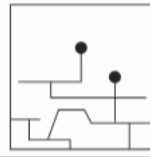
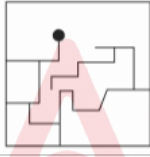
Statements:
 All swans are ducks.
 Some ducks are hens.
 Some hens are swallows.

Conclusions:
 (I) Some swallows are swans.
 (II) Some hens are swans.

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

Question ID :	630680646034
Option 1 ID :	6306802529416
Option 2 ID :	6306802529419
Option 3 ID :	6306802529418
Option 4 ID :	6306802529417

Q.7	<p>Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?</p> <p># : UQT :: VRU: %</p>											
Ans	<p>✓ 1. # = SOR, % = XTW</p> <p>✗ 2. # = SOQ, % = XTY</p> <p>✗ 3. # = SOQ, % = XTW</p> <p>✗ 4. # = SOR, % = XTY</p>											
		<table border="1"> <tr><td>Question ID :</td><td>630680543860</td></tr> <tr><td>Option 1 ID :</td><td>6306802126227</td></tr> <tr><td>Option 2 ID :</td><td>6306802126230</td></tr> <tr><td>Option 3 ID :</td><td>6306802126229</td></tr> <tr><td>Option 4 ID :</td><td>6306802126228</td></tr> </table>	Question ID :	630680543860	Option 1 ID :	6306802126227	Option 2 ID :	6306802126230	Option 3 ID :	6306802126229	Option 4 ID :	6306802126228
Question ID :	630680543860											
Option 1 ID :	6306802126227											
Option 2 ID :	6306802126230											
Option 3 ID :	6306802126229											
Option 4 ID :	6306802126228											
Q.8	<p>Select the triad that follows the same pattern as that of the two triads given below. Both triads follow the same pattern.</p> <p>LR-OM-SU OU-RP-VX</p>											
Ans	<p>✗ 1. PW-TR-XY</p> <p>✗ 2. PW-SR-WY</p> <p>✓ 3. QW-TR-XZ</p> <p>✗ 4. QW-SR-XY</p>											
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Question ID :	630680497489											
Option 1 ID :	6306801943683											
Option 2 ID :	6306801943682											
Option 3 ID :	6306801943680											
Option 4 ID :	6306801943681											
Q.9	<p>In the following number-pairs, the second number is obtained by applying certain mathematical operations 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 :: ?</p> <p>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)</p> <p>X : 345 :: 9 : Y</p>											
Ans	<p>✗ 1. X = 7, Y = 727</p> <p>✓ 2. X = 7, Y = 731</p> <p>✗ 3. X = 7, Y = 729</p> <p>✗ 4. X = 8, Y = 731</p>											
		<table border="1"> <tr><td>Question ID :</td><td>630680373820</td></tr> <tr><td>Option 1 ID :</td><td>6306801456551</td></tr> <tr><td>Option 2 ID :</td><td>6306801456553</td></tr> <tr><td>Option 3 ID :</td><td>6306801456552</td></tr> <tr><td>Option 4 ID :</td><td>6306801456554</td></tr> </table>	Question ID :	630680373820	Option 1 ID :	6306801456551	Option 2 ID :	6306801456553	Option 3 ID :	6306801456552	Option 4 ID :	6306801456554
Question ID :	630680373820											
Option 1 ID :	6306801456551											
Option 2 ID :	6306801456553											
Option 3 ID :	6306801456552											
Option 4 ID :	6306801456554											

Q.10	Three of the following pairs of letter-clusters are alike in some manner and hence form a group. Which pair does not belong to that group?											
Ans	<p>✗ 1. PN-RO</p> <p>✗ 2. HF-JG</p> <p>✗ 3. LJ-NK</p> <p>✓ 4. TR-VU</p>											
		<table border="1"> <tr><td>Question ID :</td><td>630680373474</td></tr> <tr><td>Option 1 ID :</td><td>6306801455169</td></tr> <tr><td>Option 2 ID :</td><td>6306801455167</td></tr> <tr><td>Option 3 ID :</td><td>6306801455168</td></tr> <tr><td>Option 4 ID :</td><td>6306801455170</td></tr> </table>	Question ID :	630680373474	Option 1 ID :	6306801455169	Option 2 ID :	6306801455167	Option 3 ID :	6306801455168	Option 4 ID :	6306801455170
Question ID :	630680373474											
Option 1 ID :	6306801455169											
Option 2 ID :	6306801455167											
Option 3 ID :	6306801455168											
Option 4 ID :	6306801455170											
Q.11	Select the option in which the given figure is embedded (rotation is NOT allowed).											
												
Ans	<p>✗ 1. </p>											
<p>✗ 2. </p>												
<p>✓ 3. </p>												
<p>✗ 4. </p>												
		<table border="1"> <tr><td>Question ID :</td><td>630680702894</td></tr> <tr><td>Option 1 ID :</td><td>6306802753331</td></tr> <tr><td>Option 2 ID :</td><td>6306802753329</td></tr> <tr><td>Option 3 ID :</td><td>6306802753328</td></tr> <tr><td>Option 4 ID :</td><td>6306802753330</td></tr> </table>	Question ID :	630680702894	Option 1 ID :	6306802753331	Option 2 ID :	6306802753329	Option 3 ID :	6306802753328	Option 4 ID :	6306802753330
Question ID :	630680702894											
Option 1 ID :	6306802753331											
Option 2 ID :	6306802753329											
Option 3 ID :	6306802753328											
Option 4 ID :	6306802753330											

Q.12 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:
 Few cars are airplanes.
 All airplanes are rickshaws.
 All rickshaws are helicopters.
Conclusions:
 (I) Some helicopters are airplanes.
 (II) Some rickshaws are airplanes.
 (III) All airplanes are helicopters.

- Ans**
- 1. All conclusions I, II and III follow
 - 2. Only conclusion II follows
 - 3. Either conclusion I or conclusion III follows
 - 4. Only conclusion I follows

Question ID :	630680519097
Option 1 ID :	6306802028851
Option 2 ID :	6306802028849
Option 3 ID :	6306802028850
Option 4 ID :	6306802028848

Q.13 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $15 \div 3 + 23 - 28 \times 7 = ?$

- Ans**
- 1. 27
 - 2. 25
 - 3. 26
 - 4. 24

Question ID :	630680508919
Option 1 ID :	6306801988976
Option 2 ID :	6306801988978
Option 3 ID :	6306801988977
Option 4 ID :	6306801988979

Q.14 This question is based on the following words.
 ABY BIN ENG COL
 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?

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

Question ID :	630680797509
Option 1 ID :	6306803124992
Option 2 ID :	6306803124994
Option 3 ID :	6306803124995
Option 4 ID :	6306803124993

Q.15 In a certain code, 'do the exercise everyday' is coded as 'er df cv gb', 'exercise everyday to see' is coded as 'cv gb hu io', 'change in the health' is coded as 'pl az df qw' and 'exercise see mind in' is coded as 'cv io ew az'. (All the codes are two letter coded only.) What is the possible code for 'change'?

Ans

1. Either 'az' or 'qw'

2. Either 'df' or 'az'

3. Either 'qw' or 'pl'

4. Either 'qw' or 'df'

Question ID :	630680797556
Option 1 ID :	6306803125181
Option 2 ID :	6306803125180
Option 3 ID :	6306803125183
Option 4 ID :	6306803125182

Q.16 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons. In row 1 – C, T, N and H are seated and all of them are facing south. In row 2 – P, X, W and Y are seated and all of them are facing north. Thus, each person faces another person from the other row. T sits second to the left of C, who faces W. X sits third to the right of P. H does not sit immediately next to T. Who amongst the following faces H?

Ans

1. X

2. W

3. P

4. Y

Question ID :	630680664356
Option 1 ID :	6306802601026
Option 2 ID :	6306802601024
Option 3 ID :	6306802601023
Option 4 ID :	6306802601025

Q.17 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Q has an exam on Thursday. Exactly 4 people have their exam between T and P, neither of whom has an exam on Sunday. R has an exam immediately before S. U does not have an exam on Friday. T does not have an exam after S. Who has an exam on Monday?

Ans

1. V

2. P

3. U

4. T

Question ID :	630680410783
Option 1 ID :	6306801784796
Option 2 ID :	6306801601889
Option 3 ID :	6306801601890
Option 4 ID :	6306801601888

Q.18 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following 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/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

17, 50
21, 62

Ans 1. 32, 97
 2. 26, 77
 3. 19, 57
 4. 24, 81

Question ID :	630680880623
Option 1 ID :	6306803449132
Option 2 ID :	6306803449130
Option 3 ID :	6306803449131
Option 4 ID :	6306803449129

Q.19 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that 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.)

Ans 1. JMH
 2. HKF
 3. FIE
 4. LOJ

Question ID :	630680508312
Option 1 ID :	6306801986555
Option 2 ID :	6306801986554
Option 3 ID :	6306801986553
Option 4 ID :	6306801986556

Q.20 This question is based on the following words.

TOE USE NOD OAR

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

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

Question ID :	630680796983
Option 1 ID :	6306803122884
Option 2 ID :	6306803122885
Option 3 ID :	6306803122887
Option 4 ID :	6306803122886

Section : General Awareness

Q.1	What is the Vikram Samvat era?										
Ans	<input checked="" type="checkbox"/> 1. is a Calendar System which started in 67 BC <input checked="" type="checkbox"/> 2. is a Calendar System which started in 57 BC <input checked="" type="checkbox"/> 3. is a Calendar System which started in 47 BC <input checked="" type="checkbox"/> 4. is a Calendar System which started in 77 BC										
<table border="1"> <tr><td>Question ID :</td><td>630680100234</td></tr> <tr><td>Option 1 ID :</td><td>630680389632</td></tr> <tr><td>Option 2 ID :</td><td>630680389633</td></tr> <tr><td>Option 3 ID :</td><td>630680389634</td></tr> <tr><td>Option 4 ID :</td><td>630680389635</td></tr> </table>		Question ID :	630680100234	Option 1 ID :	630680389632	Option 2 ID :	630680389633	Option 3 ID :	630680389634	Option 4 ID :	630680389635
Question ID :	630680100234										
Option 1 ID :	630680389632										
Option 2 ID :	630680389633										
Option 3 ID :	630680389634										
Option 4 ID :	630680389635										
Q.2	Which of the following Articles of the Indian Constitution forbids the class legislation but permits reasonable classification of persons, objects and transactions by the law?										
Ans	<input checked="" type="checkbox"/> 1. Article 14 <input checked="" type="checkbox"/> 2. Article 17 <input checked="" type="checkbox"/> 3. Article 21 <input checked="" type="checkbox"/> 4. Article 19										
<table border="1"> <tr><td>Question ID :</td><td>630680595012</td></tr> <tr><td>Option 1 ID :</td><td>6306802328237</td></tr> <tr><td>Option 2 ID :</td><td>6306802328238</td></tr> <tr><td>Option 3 ID :</td><td>6306802328239</td></tr> <tr><td>Option 4 ID :</td><td>6306802328240</td></tr> </table>		Question ID :	630680595012	Option 1 ID :	6306802328237	Option 2 ID :	6306802328238	Option 3 ID :	6306802328239	Option 4 ID :	6306802328240
Question ID :	630680595012										
Option 1 ID :	6306802328237										
Option 2 ID :	6306802328238										
Option 3 ID :	6306802328239										
Option 4 ID :	6306802328240										
Q.3	In which of the following regions of India are barchans found?										
Ans	<input checked="" type="checkbox"/> 1. Peninsular Plateau <input checked="" type="checkbox"/> 2. Ganga plain <input checked="" type="checkbox"/> 3. Thar Desert <input checked="" type="checkbox"/> 4. Coastal plains										
<table border="1"> <tr><td>Question ID :</td><td>630680216364</td></tr> <tr><td>Option 1 ID :</td><td>630680839434</td></tr> <tr><td>Option 2 ID :</td><td>630680839432</td></tr> <tr><td>Option 3 ID :</td><td>630680839431</td></tr> <tr><td>Option 4 ID :</td><td>630680839433</td></tr> </table>		Question ID :	630680216364	Option 1 ID :	630680839434	Option 2 ID :	630680839432	Option 3 ID :	630680839431	Option 4 ID :	630680839433
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Option 1 ID :	630680839434										
Option 2 ID :	630680839432										
Option 3 ID :	630680839431										
Option 4 ID :	630680839433										
Q.4	FSSAI is an autonomous body established for regulating and supervising the food safety standards in India. What does FSSAI stand for?										
Ans	<input checked="" type="checkbox"/> 1. Federal Standardization and Safety Authority of India <input checked="" type="checkbox"/> 2. Food Security and Standards Authority of India <input checked="" type="checkbox"/> 3. Food Safety and Standards Authority of India <input checked="" type="checkbox"/> 4. Food and Safety Standards Authorization of India										
<table border="1"> <tr><td>Question ID :</td><td>630680818747</td></tr> <tr><td>Option 1 ID :</td><td>6306803207178</td></tr> <tr><td>Option 2 ID :</td><td>6306803207179</td></tr> <tr><td>Option 3 ID :</td><td>6306803207177</td></tr> <tr><td>Option 4 ID :</td><td>6306803207176</td></tr> </table>		Question ID :	630680818747	Option 1 ID :	6306803207178	Option 2 ID :	6306803207179	Option 3 ID :	6306803207177	Option 4 ID :	6306803207176
Question ID :	630680818747										
Option 1 ID :	6306803207178										
Option 2 ID :	6306803207179										
Option 3 ID :	6306803207177										
Option 4 ID :	6306803207176										

Q.5	As per Census of India 2011, which of the following statements is/are correct? A) The second highest sex ratio among states was recorded in Tamil Nadu. B) The second highest sex ratio among union territories was recorded in Lakshadweep.										
Ans	<input checked="" type="checkbox"/> 1. Only A <input checked="" type="checkbox"/> 2. Both A and B <input checked="" type="checkbox"/> 3. Neither A nor B <input checked="" type="checkbox"/> 4. Only B										
<table border="1"> <tr><td>Question ID :</td><td>630680537459</td></tr> <tr><td>Option 1 ID :</td><td>6306802101106</td></tr> <tr><td>Option 2 ID :</td><td>6306802101104</td></tr> <tr><td>Option 3 ID :</td><td>6306802101105</td></tr> <tr><td>Option 4 ID :</td><td>6306802101107</td></tr> </table>		Question ID :	630680537459	Option 1 ID :	6306802101106	Option 2 ID :	6306802101104	Option 3 ID :	6306802101105	Option 4 ID :	6306802101107
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Option 2 ID :	6306802101104										
Option 3 ID :	6306802101105										
Option 4 ID :	6306802101107										
Q.6	What is the Environmental Temperature Normal Lapse Rate?										
Ans	<input checked="" type="checkbox"/> 1. 6.5°C/km <input checked="" type="checkbox"/> 2. 5.5°C/km <input checked="" type="checkbox"/> 3. 10°C/km <input checked="" type="checkbox"/> 4. 4.5°C/km										
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Option 1 ID :	6306801997752										
Option 2 ID :	6306801997751										
Option 3 ID :	6306801997750										
Option 4 ID :	6306801997753										
Q.7	When was the Water (Prevention and Control of Pollution) Amendment Bill, 2024, introduced in Rajya Sabha?										
Ans	<input checked="" type="checkbox"/> 1. April 2024 <input checked="" type="checkbox"/> 2. March 2024 <input checked="" type="checkbox"/> 3. February 2024 <input checked="" type="checkbox"/> 4. January 2024										
<table border="1"> <tr><td>Question ID :</td><td>630680466798</td></tr> <tr><td>Option 1 ID :</td><td>6306801823175</td></tr> <tr><td>Option 2 ID :</td><td>6306801823174</td></tr> <tr><td>Option 3 ID :</td><td>6306801823173</td></tr> <tr><td>Option 4 ID :</td><td>6306801823172</td></tr> </table>		Question ID :	630680466798	Option 1 ID :	6306801823175	Option 2 ID :	6306801823174	Option 3 ID :	6306801823173	Option 4 ID :	6306801823172
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Option 1 ID :	6306801823175										
Option 2 ID :	6306801823174										
Option 3 ID :	6306801823173										
Option 4 ID :	6306801823172										
Q.8	The part of the tree that we call 'wood' is made up of _____.										
Ans	<input checked="" type="checkbox"/> 1. xylem <input checked="" type="checkbox"/> 2. chlorenchyma tissue <input checked="" type="checkbox"/> 3. dermal tissue <input checked="" type="checkbox"/> 4. cork										
<table border="1"> <tr><td>Question ID :</td><td>630680711434</td></tr> <tr><td>Option 1 ID :</td><td>6306802787392</td></tr> <tr><td>Option 2 ID :</td><td>6306802787395</td></tr> <tr><td>Option 3 ID :</td><td>6306802787393</td></tr> <tr><td>Option 4 ID :</td><td>6306802787394</td></tr> </table>		Question ID :	630680711434	Option 1 ID :	6306802787392	Option 2 ID :	6306802787395	Option 3 ID :	6306802787393	Option 4 ID :	6306802787394
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Option 1 ID :	6306802787392										
Option 2 ID :	6306802787395										
Option 3 ID :	6306802787393										
Option 4 ID :	6306802787394										

Q.9	Ahatguri in Assam is famous for which of the following sports?										
Ans	<input checked="" type="checkbox"/> 1. Buffalo fighting <input type="checkbox"/> 2. Bull taming <input type="checkbox"/> 3. Cock fighting <input type="checkbox"/> 4. Bullock cart racing										
<table border="1"> <tr><td>Question ID :</td><td>63068090181</td></tr> <tr><td>Option 1 ID :</td><td>630680349500</td></tr> <tr><td>Option 2 ID :</td><td>630680349501</td></tr> <tr><td>Option 3 ID :</td><td>630680349499</td></tr> <tr><td>Option 4 ID :</td><td>630680349498</td></tr> </table>		Question ID :	63068090181	Option 1 ID :	630680349500	Option 2 ID :	630680349501	Option 3 ID :	630680349499	Option 4 ID :	630680349498
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Option 1 ID :	630680349500										
Option 2 ID :	630680349501										
Option 3 ID :	630680349499										
Option 4 ID :	630680349498										
Q.10	Which of the following options INCORRECTLY completes the given sentence. All the Non-constitutional Bodies are _____ and _____.										
Ans	<input type="checkbox"/> 1. unconstitutional; mentioned in the Constitution <input checked="" type="checkbox"/> 2. not mentioned in the Constitution; do not derive their power from the Constitution <input type="checkbox"/> 3. mentioned; derive their power from the Constitution <input type="checkbox"/> 4. mentioned; do not derive their power from the Constitution										
<table border="1"> <tr><td>Question ID :</td><td>630680744350</td></tr> <tr><td>Option 1 ID :</td><td>6306802917621</td></tr> <tr><td>Option 2 ID :</td><td>6306802917624</td></tr> <tr><td>Option 3 ID :</td><td>6306802917623</td></tr> <tr><td>Option 4 ID :</td><td>6306802917622</td></tr> </table>		Question ID :	630680744350	Option 1 ID :	6306802917621	Option 2 ID :	6306802917624	Option 3 ID :	6306802917623	Option 4 ID :	6306802917622
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Option 1 ID :	6306802917621										
Option 2 ID :	6306802917624										
Option 3 ID :	6306802917623										
Option 4 ID :	6306802917622										
Q.11	Which of the following is NOT a part of the 'Make in India' initiative?										
Ans	<input type="checkbox"/> 1. Foster innovation in India <input checked="" type="checkbox"/> 2. To boost entrepreneurship outside India <input type="checkbox"/> 3. Enhance skill development <input type="checkbox"/> 4. Facilitate investment										
<table border="1"> <tr><td>Question ID :</td><td>630680324412</td></tr> <tr><td>Option 1 ID :</td><td>6306801262130</td></tr> <tr><td>Option 2 ID :</td><td>6306801262132</td></tr> <tr><td>Option 3 ID :</td><td>6306801262131</td></tr> <tr><td>Option 4 ID :</td><td>6306801262129</td></tr> </table>		Question ID :	630680324412	Option 1 ID :	6306801262130	Option 2 ID :	6306801262132	Option 3 ID :	6306801262131	Option 4 ID :	6306801262129
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Option 1 ID :	6306801262130										
Option 2 ID :	6306801262132										
Option 3 ID :	6306801262131										
Option 4 ID :	6306801262129										
Q.12	The unit of heredity is _____.										
Ans	<input type="checkbox"/> 1. chromosome <input type="checkbox"/> 2. nucleus <input checked="" type="checkbox"/> 3. gene <input type="checkbox"/> 4. DNA										
<table border="1"> <tr><td>Question ID :</td><td>630680721217</td></tr> <tr><td>Option 1 ID :</td><td>6306802826223</td></tr> <tr><td>Option 2 ID :</td><td>6306802826221</td></tr> <tr><td>Option 3 ID :</td><td>6306802826224</td></tr> <tr><td>Option 4 ID :</td><td>6306802826222</td></tr> </table>		Question ID :	630680721217	Option 1 ID :	6306802826223	Option 2 ID :	6306802826221	Option 3 ID :	6306802826224	Option 4 ID :	6306802826222
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Option 1 ID :	6306802826223										
Option 2 ID :	6306802826221										
Option 3 ID :	6306802826224										
Option 4 ID :	6306802826222										

Q.13	Silvassa Municipal Council belongs to which of the Union Territories?										
Ans	<input checked="" type="checkbox"/> 1. Dadra and Nagar Haveli <input type="checkbox"/> 2. Lakshadweep <input type="checkbox"/> 3. Andaman and Nicobar Islands <input type="checkbox"/> 4. Puducherry										
<table border="1"> <tr><td>Question ID :</td><td>630680161089</td></tr> <tr><td>Option 1 ID :</td><td>630680623721</td></tr> <tr><td>Option 2 ID :</td><td>630680623722</td></tr> <tr><td>Option 3 ID :</td><td>630680623723</td></tr> <tr><td>Option 4 ID :</td><td>630680623720</td></tr> </table>		Question ID :	630680161089	Option 1 ID :	630680623721	Option 2 ID :	630680623722	Option 3 ID :	630680623723	Option 4 ID :	630680623720
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Option 1 ID :	630680623721										
Option 2 ID :	630680623722										
Option 3 ID :	630680623723										
Option 4 ID :	630680623720										
Q.14	Which of the following scripts served as a major influence on the development of various scripts in India, Nepal, Tibet, and Sri Lanka? (Note: Regarded as the oldest script in India, several prominent languages have evolved from this script.)										
Ans	<input type="checkbox"/> 1. Devnagari <input checked="" type="checkbox"/> 2. Brahmi <input type="checkbox"/> 3. Nandinagri <input type="checkbox"/> 4. Sinhalese										
<table border="1"> <tr><td>Question ID :</td><td>630680633968</td></tr> <tr><td>Option 1 ID :</td><td>6306802481761</td></tr> <tr><td>Option 2 ID :</td><td>6306802481762</td></tr> <tr><td>Option 3 ID :</td><td>6306802481763</td></tr> <tr><td>Option 4 ID :</td><td>6306802481760</td></tr> </table>		Question ID :	630680633968	Option 1 ID :	6306802481761	Option 2 ID :	6306802481762	Option 3 ID :	6306802481763	Option 4 ID :	6306802481760
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Option 1 ID :	6306802481761										
Option 2 ID :	6306802481762										
Option 3 ID :	6306802481763										
Option 4 ID :	6306802481760										
Q.15	In which of the following reactions is carbon dioxide reduced and water oxidised?										
Ans	<input type="checkbox"/> 1. Transpiration <input type="checkbox"/> 2. Translocation <input checked="" type="checkbox"/> 3. Photosynthesis <input type="checkbox"/> 4. Glycolysis										
<table border="1"> <tr><td>Question ID :</td><td>63068070119</td></tr> <tr><td>Option 1 ID :</td><td>630680271114</td></tr> <tr><td>Option 2 ID :</td><td>630680271117</td></tr> <tr><td>Option 3 ID :</td><td>630680271115</td></tr> <tr><td>Option 4 ID :</td><td>630680271116</td></tr> </table>		Question ID :	63068070119	Option 1 ID :	630680271114	Option 2 ID :	630680271117	Option 3 ID :	630680271115	Option 4 ID :	630680271116
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Option 1 ID :	630680271114										
Option 2 ID :	630680271117										
Option 3 ID :	630680271115										
Option 4 ID :	630680271116										
Q.16	Which festival is celebrated as Groundnut Fair in Bengaluru, Karnataka?										
Ans	<input type="checkbox"/> 1. Ugadi <input checked="" type="checkbox"/> 2. Kadalekai Parishe <input type="checkbox"/> 3. Gowri <input type="checkbox"/> 4. Karaga										
<table border="1"> <tr><td>Question ID :</td><td>630680511941</td></tr> <tr><td>Option 1 ID :</td><td>6306802000735</td></tr> <tr><td>Option 2 ID :</td><td>6306802000736</td></tr> <tr><td>Option 3 ID :</td><td>6306802000734</td></tr> <tr><td>Option 4 ID :</td><td>6306802000737</td></tr> </table>		Question ID :	630680511941	Option 1 ID :	6306802000735	Option 2 ID :	6306802000736	Option 3 ID :	6306802000734	Option 4 ID :	6306802000737
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Option 1 ID :	6306802000735										
Option 2 ID :	6306802000736										
Option 3 ID :	6306802000734										
Option 4 ID :	6306802000737										

Q.17 As per the Keynesian theory, what does NOT motivate people to hold money in balance?

- Ans**
- 1. Transaction and Precautionary motives
 - 2. Speculative and Precautionary motives
 - 3. Transaction and Speculative motives
 - 4. Lending and Speculative motives

Question ID : [630680306289](#)

Option 1 ID : [6306801191509](#)

Option 2 ID : [6306801191511](#)

Option 3 ID : [6306801191510](#)

Option 4 ID : [6306801191512](#)

Q.18 Which historical work was written by the Sanskrit poet and scholar, Banabhatta in praise of the Pushyabhuti emperor of northern India?

- Ans**
- 1. Raghuvamsha
 - 2. Mricchakatika
 - 3. Harshacharita
 - 4. Meghaduta

Question ID : [630680433748](#)

Option 1 ID : [6306801692957](#)

Option 2 ID : [6306801692955](#)

Option 3 ID : [6306801692958](#)

Option 4 ID : [6306801692956](#)

Q.19 Who amongst the following can be appointed as the Chairperson of the National Human Rights Commission?

- Ans**
- 1. Retired Chief Justice of India
 - 2. Any Legal Practitioner
 - 3. Retired Judge of the High Court
 - 4. Retired Chief Justice of the High Court

Question ID : [630680321637](#)

Option 1 ID : [6306801251248](#)

Option 2 ID : [6306801251247](#)

Option 3 ID : [6306801251245](#)

Option 4 ID : [6306801251246](#)

Q.20 'Santhali' is the official language of which of the following states of India?

- Ans**
- 1. Gujarat
 - 2. Haryana
 - 3. Bihar
 - 4. Jharkhand

Question ID : [630680734062](#)

Option 1 ID : [6306802877025](#)

Option 2 ID : [6306802877026](#)

Option 3 ID : [6306802877027](#)

Option 4 ID : [6306802877024](#)

Section : Arithmetical and Numerical Ability

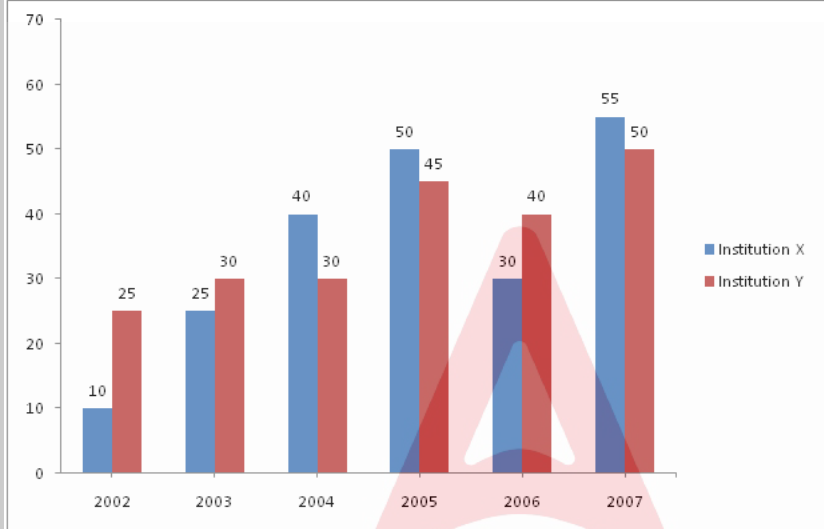
Q.1	A and B take part in a 300 m race. A runs at 6 kmph. A gives B a start of 30 m and still beats B by 40 seconds. Find the speed of B.										
Ans	<input checked="" type="checkbox"/> 1. 4.42 kmph <input type="checkbox"/> 2. 1.25 kmph <input type="checkbox"/> 3. 2 kmph <input type="checkbox"/> 4. 1.53 kmph										
<table border="1"> <tr><td>Question ID :</td><td>630680268096</td></tr> <tr><td>Option 1 ID :</td><td>6306801041745</td></tr> <tr><td>Option 2 ID :</td><td>6306801041743</td></tr> <tr><td>Option 3 ID :</td><td>6306801041746</td></tr> <tr><td>Option 4 ID :</td><td>6306801041744</td></tr> </table>		Question ID :	630680268096	Option 1 ID :	6306801041745	Option 2 ID :	6306801041743	Option 3 ID :	6306801041746	Option 4 ID :	6306801041744
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Option 1 ID :	6306801041745										
Option 2 ID :	6306801041743										
Option 3 ID :	6306801041746										
Option 4 ID :	6306801041744										
Q.2	What is the value of $(0.\overline{4} \div 0.\overline{44}) \times 0.\overline{444}$?										
Ans	<input type="checkbox"/> 1. $\frac{999}{44}$ <input type="checkbox"/> 2. $\frac{9}{4}$ <input type="checkbox"/> 3. $\frac{44}{999}$ <input checked="" type="checkbox"/> 4. $\frac{4}{9}$										
<table border="1"> <tr><td>Question ID :</td><td>63068084216</td></tr> <tr><td>Option 1 ID :</td><td>630680326395</td></tr> <tr><td>Option 2 ID :</td><td>630680326393</td></tr> <tr><td>Option 3 ID :</td><td>630680326392</td></tr> <tr><td>Option 4 ID :</td><td>630680326394</td></tr> </table>		Question ID :	63068084216	Option 1 ID :	630680326395	Option 2 ID :	630680326393	Option 3 ID :	630680326392	Option 4 ID :	630680326394
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Option 1 ID :	630680326395										
Option 2 ID :	630680326393										
Option 3 ID :	630680326392										
Option 4 ID :	630680326394										
Q.3	The average age of P and Q is 55 years. When P is replaced by R, the average became 58 years. If the average age of P and R is 60 years, who is the youngest among these three?										
Ans	<input type="checkbox"/> 1. All are of same age <input type="checkbox"/> 2. R <input type="checkbox"/> 3. P <input checked="" type="checkbox"/> 4. Q										
<table border="1"> <tr><td>Question ID :</td><td>630680878633</td></tr> <tr><td>Option 1 ID :</td><td>6306803441212</td></tr> <tr><td>Option 2 ID :</td><td>6306803441214</td></tr> <tr><td>Option 3 ID :</td><td>6306803441213</td></tr> <tr><td>Option 4 ID :</td><td>6306803441215</td></tr> </table>		Question ID :	630680878633	Option 1 ID :	6306803441212	Option 2 ID :	6306803441214	Option 3 ID :	6306803441213	Option 4 ID :	6306803441215
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Option 1 ID :	6306803441212										
Option 2 ID :	6306803441214										
Option 3 ID :	6306803441213										
Option 4 ID :	6306803441215										
Q.4	Mahesh sold two music systems, each for ₹1260. If he made 25% profit on the first and 25% loss on the second, then what is the total cost (in ₹) of both music systems?										
Ans	<input checked="" type="checkbox"/> 1. 2688 <input type="checkbox"/> 2. 1260 <input type="checkbox"/> 3. 2838 <input type="checkbox"/> 4. 1575										
<table border="1"> <tr><td>Question ID :</td><td>630680633376</td></tr> <tr><td>Option 1 ID :</td><td>6306802479400</td></tr> <tr><td>Option 2 ID :</td><td>6306802479401</td></tr> <tr><td>Option 3 ID :</td><td>6306802479403</td></tr> <tr><td>Option 4 ID :</td><td>6306802479402</td></tr> </table>		Question ID :	630680633376	Option 1 ID :	6306802479400	Option 2 ID :	6306802479401	Option 3 ID :	6306802479403	Option 4 ID :	6306802479402
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Option 1 ID :	6306802479400										
Option 2 ID :	6306802479401										
Option 3 ID :	6306802479403										
Option 4 ID :	6306802479402										

Q.5 A shopkeeper offers 7.5% discount on cash purchases. What cash amount (in ₹) would Krishna pay for a shirt, the marked price of which is ₹2,280?

Ans 1. 2,109
 2. 2,035
 3. 2,145
 4. 2,200

Question ID : 630680635492
 Option 1 ID : 6306802487863
 Option 2 ID : 6306802487862
 Option 3 ID : 6306802487864
 Option 4 ID : 6306802487865

Q Study the graph and answer the following question.
6 Number of candidates (in thousands) qualified in the written test for admission to two different institutions, X and Y.



What is the difference between the total number of candidates qualified in the written test in the year 2005 for admission to i

A n s
 1. 75,000
 2. 55,000
 3. 70,000
 4. 65,000



Q.7	A seller sells artificial pendants at ₹300 per dozen. The amount (in ₹) of one gross quantity of pendants is:										
Ans	<input checked="" type="checkbox"/> 1. 3,600 <input type="checkbox"/> 2. 2,789 <input type="checkbox"/> 3. 1,000 <input type="checkbox"/> 4. 2,500										
<table border="1"> <tr><td>Question ID :</td><td>630680397191</td></tr> <tr><td>Option 1 ID :</td><td>6306801548823</td></tr> <tr><td>Option 2 ID :</td><td>6306801548821</td></tr> <tr><td>Option 3 ID :</td><td>6306801548822</td></tr> <tr><td>Option 4 ID :</td><td>6306801548820</td></tr> </table>		Question ID :	630680397191	Option 1 ID :	6306801548823	Option 2 ID :	6306801548821	Option 3 ID :	6306801548822	Option 4 ID :	6306801548820
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Option 1 ID :	6306801548823										
Option 2 ID :	6306801548821										
Option 3 ID :	6306801548822										
Option 4 ID :	6306801548820										
Q.8	The sum of the reciprocals of the first four prime numbers is:										
Ans	<input checked="" type="checkbox"/> 1. $1 \frac{37}{210}$ <input type="checkbox"/> 2. $1 \frac{71}{105}$ <input type="checkbox"/> 3. $2 \frac{47}{210}$ <input type="checkbox"/> 4. $2 \frac{1}{30}$										
<table border="1"> <tr><td>Question ID :</td><td>630680428906</td></tr> <tr><td>Option 1 ID :</td><td>6306801673671</td></tr> <tr><td>Option 2 ID :</td><td>6306801673668</td></tr> <tr><td>Option 3 ID :</td><td>6306801673670</td></tr> <tr><td>Option 4 ID :</td><td>6306801673669</td></tr> </table>		Question ID :	630680428906	Option 1 ID :	6306801673671	Option 2 ID :	6306801673668	Option 3 ID :	6306801673670	Option 4 ID :	6306801673669
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Option 1 ID :	6306801673671										
Option 2 ID :	6306801673668										
Option 3 ID :	6306801673670										
Option 4 ID :	6306801673669										
Q.9	A, B and C started a business by investing ₹39,000, ₹68,900 and ₹92,300, respectively. A is a working partner and gets 25% of the profit for maintenance and the remaining is distributed in the proportion of their investments. If the total profit is ₹98,098, then what is the share of A (in ₹)?										
Ans	<input type="checkbox"/> 1. 34680 <input checked="" type="checkbox"/> 2. 38857 <input type="checkbox"/> 3. 40258 <input type="checkbox"/> 4. 32650										
<table border="1"> <tr><td>Question ID :</td><td>630680635853</td></tr> <tr><td>Option 1 ID :</td><td>6306802489275</td></tr> <tr><td>Option 2 ID :</td><td>6306802489276</td></tr> <tr><td>Option 3 ID :</td><td>6306802489277</td></tr> <tr><td>Option 4 ID :</td><td>6306802489274</td></tr> </table>		Question ID :	630680635853	Option 1 ID :	6306802489275	Option 2 ID :	6306802489276	Option 3 ID :	6306802489277	Option 4 ID :	6306802489274
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Option 1 ID :	6306802489275										
Option 2 ID :	6306802489276										
Option 3 ID :	6306802489277										
Option 4 ID :	6306802489274										
Q.10	The average marks per subject scored by T are 65. His marks in English are 56 and he scored 3 marks more in Mathematics than Hindi. There are only three subjects. His marks in Mathematics are:										
Ans	<input type="checkbox"/> 1. 70 <input type="checkbox"/> 2. 67 <input type="checkbox"/> 3. 68 <input checked="" type="checkbox"/> 4. 71										
<table border="1"> <tr><td>Question ID :</td><td>630680656374</td></tr> <tr><td>Option 1 ID :</td><td>6306802569446</td></tr> <tr><td>Option 2 ID :</td><td>6306802569445</td></tr> <tr><td>Option 3 ID :</td><td>6306802569443</td></tr> <tr><td>Option 4 ID :</td><td>6306802569444</td></tr> </table>		Question ID :	630680656374	Option 1 ID :	6306802569446	Option 2 ID :	6306802569445	Option 3 ID :	6306802569443	Option 4 ID :	6306802569444
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Option 2 ID :	6306802569445										
Option 3 ID :	6306802569443										
Option 4 ID :	6306802569444										

Q.11 Taps P and Q can fill a tank in 6 hours and 4 hours, respectively. However, they will be opened only on alternate days in such a way that P will be opened first, followed by Q. The time required to fill the tank will be:

Ans 1. 5 hours

2. $2\frac{1}{2}$ hours

3. 6 hours

4. 3 hours

Question ID : [63068065160](#)

Option 1 ID : [630680251607](#)

Option 2 ID : [630680251606](#)

Option 3 ID : [630680251608](#)

Option 4 ID : [630680251609](#)

Q.12 The price of food items rises by 8%. By how much percentage should a family reduce consumption so to keep the expenditure same as before?

Ans 1. $6\frac{1}{3}\%$

2. $7\frac{11}{27}\%$

3. $5\frac{1}{2}\%$

4. $7\frac{11}{12}\%$

Question ID : [630680878628](#)

Option 1 ID : [6306803441194](#)

Option 2 ID : [6306803441192](#)

Option 3 ID : [6306803441195](#)

Option 4 ID : [6306803441193](#)

Q.13 In a 770 m race, Raj reaches the final point in 30 seconds and Vikas reaches it in 55 seconds. By what distance does Raj beat Vikas?

Ans 1. 300 m

2. 325 m

3. 375 m

4. 350 m

Question ID : [630680145276](#)

Option 1 ID : [630680562086](#)

Option 2 ID : [630680562087](#)

Option 3 ID : [630680562089](#)

Option 4 ID : [630680562088](#)

Q.14 The population of a village was 240000. It increased by 5% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans 1. 300000

2. 288000

3. 302400

4. 252000

Question ID : [630680667306](#)

Option 1 ID : [6306802612787](#)

Option 2 ID : [6306802612786](#)

Option 3 ID : [6306802612784](#)

Option 4 ID : [6306802612785](#)

Q.15 Rachit invests ₹5,00,000 in the name of his daughter, who is 16 years old, in a scheme that pays 6% compound interest per annum, compounded annually. What will be the total amount which the daughter receives when she turns 18 years old?

- Ans
- 1. ₹5,51,520
 - 2. ₹5,61,800
 - 3. ₹5,15,250
 - 4. ₹5,52,150

Question ID :	630680277364
Option 1 ID :	6306801077906
Option 2 ID :	6306801077908
Option 3 ID :	6306801077907
Option 4 ID :	6306801077905

Q.16 There are 23 taps connected to a tank; some are inlets and others are outlets. Each inlet can fill the tank in 24 hours and each outlet can empty it in 40 hours. The tank will be full in 40 hours if all taps are opened together. The difference between the number of inlet and outlet taps is:

- Ans
- 1. 9
 - 2. 5
 - 3. 14
 - 4. 10

Question ID :	630680633811
Option 1 ID :	6306802481136
Option 2 ID :	6306802481138
Option 3 ID :	6306802481137
Option 4 ID :	6306802481139

Q.17 A trader lost 5% by selling a shirt for ₹800. He will gain x% ; by selling it for ₹1440, the value of x is:

- Ans
- 1. 71
 - 2. 61
 - 3. 81
 - 4. 86

Question ID :	630680704337
Option 1 ID :	6306802759034
Option 2 ID :	6306802759035
Option 3 ID :	6306802759036
Option 4 ID :	6306802759037

Q.18 A solid cone of diameter 28 cm with slant height 22.1 cm is to be made. What will be the volume of the wood required? (Take $\pi = 3.14$) (to the nearest integer)

- Ans
- 1. 3509 cm³
 - 2. 579471 cm³
 - 3. 3508 cm³
 - 4. 4534 cm³

Question ID :	630680878860
Option 1 ID :	6306803442123
Option 2 ID :	6306803442125
Option 3 ID :	6306803442122
Option 4 ID :	6306803442124

Q.19 Ice cream is to be filled in cones of height 9 cm and base radius 3 cm, having a hemispherical cap, from a right circular cylindrical container of base radius 9 cm and height 15 cm which is totally filled with ice cream. Find the number of cones needed to empty the container. ($\pi = \frac{22}{7}$)

Ans 1. 23
 2. 24
 3. 30
 4. 27

Question ID :	630680387366
Option 1 ID :	6306801510153
Option 2 ID :	6306801510152
Option 3 ID :	6306801510151
Option 4 ID :	6306801510150

Q.20 At what rate (in percentage) per year will a sum of money 2 times itself in 4 years on simple interest?

Ans 1. 50
 2. 23
 3. 27
 4. 25

Question ID :	630680612303
Option 1 ID :	6306802395945
Option 2 ID :	6306802395946
Option 3 ID :	6306802395947
Option 4 ID :	6306802395944

Section : Test of English Language and Comprehension

Q.1 Select the most appropriate meaning of the underlined phrase. Rekha's parent urged her to pursue a career in acting, but it proved to be a damp squib .

Ans 1. Judgmental
 2. Unimpressive
 3. Successful
 4. Detrimental

Question ID :	630680160176
Option 1 ID :	630680620079
Option 2 ID :	630680620076
Option 3 ID :	630680620077
Option 4 ID :	630680620078

Q.2	Select the most appropriate option that can substitute the underlined phrase in the given sentence. "The grammatical rules seem <u>arcane</u> to generations of students who were never taught grammar in the first place," Prof. Kissinger told his colleagues in the Languages department.										
Ans	<input checked="" type="checkbox"/> 1. Abstruse <input type="checkbox"/> 2. Ponderous <input type="checkbox"/> 3. Hackneyed <input type="checkbox"/> 4. Lucid										
<table border="1"> <tr><td>Question ID :</td><td>630680126989</td></tr> <tr><td>Option 1 ID :</td><td>630680492469</td></tr> <tr><td>Option 2 ID :</td><td>630680492466</td></tr> <tr><td>Option 3 ID :</td><td>630680492468</td></tr> <tr><td>Option 4 ID :</td><td>630680492467</td></tr> </table>		Question ID :	630680126989	Option 1 ID :	630680492469	Option 2 ID :	630680492466	Option 3 ID :	630680492468	Option 4 ID :	630680492467
Question ID :	630680126989										
Option 1 ID :	630680492469										
Option 2 ID :	630680492466										
Option 3 ID :	630680492468										
Option 4 ID :	630680492467										
Q.3	Select the most appropriate option to fill in the blank. The _____ bench creaked softly as I sat down to enjoy the peacefulness of the forest clearing.										
Ans	<input checked="" type="checkbox"/> 1. wooden <input type="checkbox"/> 2. wooded <input type="checkbox"/> 3. woodsy <input type="checkbox"/> 4. woody										
<table border="1"> <tr><td>Question ID :</td><td>630680772219</td></tr> <tr><td>Option 1 ID :</td><td>6306803026861</td></tr> <tr><td>Option 2 ID :</td><td>6306803026862</td></tr> <tr><td>Option 3 ID :</td><td>6306803026863</td></tr> <tr><td>Option 4 ID :</td><td>6306803026860</td></tr> </table>		Question ID :	630680772219	Option 1 ID :	6306803026861	Option 2 ID :	6306803026862	Option 3 ID :	6306803026863	Option 4 ID :	6306803026860
Question ID :	630680772219										
Option 1 ID :	6306803026861										
Option 2 ID :	6306803026862										
Option 3 ID :	6306803026863										
Option 4 ID :	6306803026860										
Q.4	Select the most appropriate idiom to substitute the underlined segment in the given sentence. The family members reached the cinema hall before the showtime to grab the desired seats as <u>the people who arrive first are the ones who are successful.</u>										
Ans	<input type="checkbox"/> 1. the early kid gets to win <input type="checkbox"/> 2. the early learner is a learner <input checked="" type="checkbox"/> 3. the early bird gets the worm <input type="checkbox"/> 4. the early person gets the sunlight										
<table border="1"> <tr><td>Question ID :</td><td>630680180795</td></tr> <tr><td>Option 1 ID :</td><td>630680700622</td></tr> <tr><td>Option 2 ID :</td><td>630680700620</td></tr> <tr><td>Option 3 ID :</td><td>630680700621</td></tr> <tr><td>Option 4 ID :</td><td>630680700623</td></tr> </table>		Question ID :	630680180795	Option 1 ID :	630680700622	Option 2 ID :	630680700620	Option 3 ID :	630680700621	Option 4 ID :	630680700623
Question ID :	630680180795										
Option 1 ID :	630680700622										
Option 2 ID :	630680700620										
Option 3 ID :	630680700621										
Option 4 ID :	630680700623										
Q.5	Select the most appropriate option to fill in the blank. The fairy's house was so tiny that only a _____ creature could comfortably dwell within its walls.										
Ans	<input type="checkbox"/> 1. smallest <input type="checkbox"/> 2. so small <input type="checkbox"/> 3. very smallest <input checked="" type="checkbox"/> 4. very small										
<table border="1"> <tr><td>Question ID :</td><td>630680772205</td></tr> <tr><td>Option 1 ID :</td><td>6306803026800</td></tr> <tr><td>Option 2 ID :</td><td>6306803026802</td></tr> <tr><td>Option 3 ID :</td><td>6306803026803</td></tr> <tr><td>Option 4 ID :</td><td>6306803026801</td></tr> </table>		Question ID :	630680772205	Option 1 ID :	6306803026800	Option 2 ID :	6306803026802	Option 3 ID :	6306803026803	Option 4 ID :	6306803026801
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Option 1 ID :	6306803026800										
Option 2 ID :	6306803026802										
Option 3 ID :	6306803026803										
Option 4 ID :	6306803026801										

Q.6	Select the most appropriate option to fill in the blank. The ____ alleyway was barely wide enough for two people to pass each other, creating a sense of intimacy amidst the bustling city streets.										
Ans	<input checked="" type="checkbox"/> 1. thin <input checked="" type="checkbox"/> 2. thinning <input checked="" type="checkbox"/> 3. narrower <input checked="" type="checkbox"/> 4. narrow										
<table border="1"> <tr><td>Question ID :</td><td>630680772196</td></tr> <tr><td>Option 1 ID :</td><td>6306803026761</td></tr> <tr><td>Option 2 ID :</td><td>6306803026763</td></tr> <tr><td>Option 3 ID :</td><td>6306803026762</td></tr> <tr><td>Option 4 ID :</td><td>6306803026760</td></tr> </table>		Question ID :	630680772196	Option 1 ID :	6306803026761	Option 2 ID :	6306803026763	Option 3 ID :	6306803026762	Option 4 ID :	6306803026760
Question ID :	630680772196										
Option 1 ID :	6306803026761										
Option 2 ID :	6306803026763										
Option 3 ID :	6306803026762										
Option 4 ID :	6306803026760										
Q.7	Select the INCORRECTLY spelt word.										
Ans	<input checked="" type="checkbox"/> 1. Exaggerate <input checked="" type="checkbox"/> 2. Excellent <input checked="" type="checkbox"/> 3. Extinguish <input checked="" type="checkbox"/> 4. Embaarass										
<table border="1"> <tr><td>Question ID :</td><td>630680554317</td></tr> <tr><td>Option 1 ID :</td><td>6306802167123</td></tr> <tr><td>Option 2 ID :</td><td>6306802167125</td></tr> <tr><td>Option 3 ID :</td><td>6306802167124</td></tr> <tr><td>Option 4 ID :</td><td>6306802167122</td></tr> </table>		Question ID :	630680554317	Option 1 ID :	6306802167123	Option 2 ID :	6306802167125	Option 3 ID :	6306802167124	Option 4 ID :	6306802167122
Question ID :	630680554317										
Option 1 ID :	6306802167123										
Option 2 ID :	6306802167125										
Option 3 ID :	6306802167124										
Option 4 ID :	6306802167122										
Q.8	Select the most appropriate meaning of the underlined idiom. When my friends have discussion on foot ball matches, it is <u>all Greek</u> to me.										
Ans	<input checked="" type="checkbox"/> 1. invisible <input checked="" type="checkbox"/> 2. incomprehensible <input checked="" type="checkbox"/> 3. ineligible <input checked="" type="checkbox"/> 4. irrevocable										
<table border="1"> <tr><td>Question ID :</td><td>63068071409</td></tr> <tr><td>Option 1 ID :</td><td>630680276186</td></tr> <tr><td>Option 2 ID :</td><td>630680276188</td></tr> <tr><td>Option 3 ID :</td><td>630680276187</td></tr> <tr><td>Option 4 ID :</td><td>630680276189</td></tr> </table>		Question ID :	63068071409	Option 1 ID :	630680276186	Option 2 ID :	630680276188	Option 3 ID :	630680276187	Option 4 ID :	630680276189
Question ID :	63068071409										
Option 1 ID :	630680276186										
Option 2 ID :	630680276188										
Option 3 ID :	630680276187										
Option 4 ID :	630680276189										
Q.9	Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. Every year, during the third week of July, all the swans in the River Thames are counted for the Queen in a practice called 'Swan Upping'. B. The law originated in medieval times when swans were a delicacy for the wealthy, but it still stands today. C. According to British law, any unclaimed swan swimming in the open waters of England and Wales belongs to the Queen. D. Queen Elizabeth II also upheld a centuries-old tradition with the swans.										
Ans	<input checked="" type="checkbox"/> 1. CBDA <input checked="" type="checkbox"/> 2. CBAD <input checked="" type="checkbox"/> 3. CDBA <input checked="" type="checkbox"/> 4. CDAB										
<table border="1"> <tr><td>Question ID :</td><td>630680204451</td></tr> <tr><td>Option 1 ID :</td><td>630680792872</td></tr> <tr><td>Option 2 ID :</td><td>630680792871</td></tr> <tr><td>Option 3 ID :</td><td>630680792874</td></tr> <tr><td>Option 4 ID :</td><td>630680792873</td></tr> </table>		Question ID :	630680204451	Option 1 ID :	630680792872	Option 2 ID :	630680792871	Option 3 ID :	630680792874	Option 4 ID :	630680792873
Question ID :	630680204451										
Option 1 ID :	630680792872										
Option 2 ID :	630680792871										
Option 3 ID :	630680792874										
Option 4 ID :	630680792873										

Q.10	What is the term for a person who is skilled in multiple disciplines or fields?										
Ans	<input checked="" type="checkbox"/> 1. Versatile <input checked="" type="checkbox"/> 2. Expert <input checked="" type="checkbox"/> 3. Multitasker <input checked="" type="checkbox"/> 4. Polymath										
<table border="1"> <tr><td>Question ID :</td><td>630680770912</td></tr> <tr><td>Option 1 ID :</td><td>6306803021536</td></tr> <tr><td>Option 2 ID :</td><td>6306803021533</td></tr> <tr><td>Option 3 ID :</td><td>6306803021534</td></tr> <tr><td>Option 4 ID :</td><td>6306803021535</td></tr> </table>		Question ID :	630680770912	Option 1 ID :	6306803021536	Option 2 ID :	6306803021533	Option 3 ID :	6306803021534	Option 4 ID :	6306803021535
Question ID :	630680770912										
Option 1 ID :	6306803021536										
Option 2 ID :	6306803021533										
Option 3 ID :	6306803021534										
Option 4 ID :	6306803021535										
Q.11	Select the most appropriate option to fill in the blank. The _____ boy eagerly explored the forest, his eyes wide with wonder at the sights and sounds of nature surrounding him.										
Ans	<input checked="" type="checkbox"/> 1. youthfulness <input checked="" type="checkbox"/> 2. young <input checked="" type="checkbox"/> 3. youth <input checked="" type="checkbox"/> 4. very youth										
<table border="1"> <tr><td>Question ID :</td><td>630680772202</td></tr> <tr><td>Option 1 ID :</td><td>6306803026788</td></tr> <tr><td>Option 2 ID :</td><td>6306803026790</td></tr> <tr><td>Option 3 ID :</td><td>6306803026789</td></tr> <tr><td>Option 4 ID :</td><td>6306803026791</td></tr> </table>		Question ID :	630680772202	Option 1 ID :	6306803026788	Option 2 ID :	6306803026790	Option 3 ID :	6306803026789	Option 4 ID :	6306803026791
Question ID :	630680772202										
Option 1 ID :	6306803026788										
Option 2 ID :	6306803026790										
Option 3 ID :	6306803026789										
Option 4 ID :	6306803026791										
Q.12	Select the most appropriate pair of ANTONYMS to fill in the blanks. "Your _____ is the reason people avoid working with you", the supervisor stated. "If you can be _____ then you are welcome on this project", he advised.										
Ans	<input checked="" type="checkbox"/> 1. insolence, indolent <input checked="" type="checkbox"/> 2. indolence, industrious <input checked="" type="checkbox"/> 3. insolence, industrious <input checked="" type="checkbox"/> 4. industriousness, insolent										
<table border="1"> <tr><td>Question ID :</td><td>63068078664</td></tr> <tr><td>Option 1 ID :</td><td>630680304707</td></tr> <tr><td>Option 2 ID :</td><td>630680304706</td></tr> <tr><td>Option 3 ID :</td><td>630680304705</td></tr> <tr><td>Option 4 ID :</td><td>630680304708</td></tr> </table>		Question ID :	63068078664	Option 1 ID :	630680304707	Option 2 ID :	630680304706	Option 3 ID :	630680304705	Option 4 ID :	630680304708
Question ID :	63068078664										
Option 1 ID :	630680304707										
Option 2 ID :	630680304706										
Option 3 ID :	630680304705										
Option 4 ID :	630680304708										
Q.13	Select the most appropriate synonym of the given word. Curious										
Ans	<input checked="" type="checkbox"/> 1. Inquisitive <input checked="" type="checkbox"/> 2. Forgetful <input checked="" type="checkbox"/> 3. Indifferent <input checked="" type="checkbox"/> 4. Apathetic										
<table border="1"> <tr><td>Question ID :</td><td>630680553338</td></tr> <tr><td>Option 1 ID :</td><td>6306802163267</td></tr> <tr><td>Option 2 ID :</td><td>6306802163265</td></tr> <tr><td>Option 3 ID :</td><td>6306802163264</td></tr> <tr><td>Option 4 ID :</td><td>6306802163266</td></tr> </table>		Question ID :	630680553338	Option 1 ID :	6306802163267	Option 2 ID :	6306802163265	Option 3 ID :	6306802163264	Option 4 ID :	6306802163266
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Option 1 ID :	6306802163267										
Option 2 ID :	6306802163265										
Option 3 ID :	6306802163264										
Option 4 ID :	6306802163266										

Q.14 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A) spring and autumn for many years
- B) children play in his garden, due to which
- C) the selfish giant didn't let the
- D) the spirits of nature became
- E) angry and deprived him of

- Ans**
- 1. DACEB
 - 2. BADEC
 - 3. CBDEA
 - 4. EBADC

Question ID :	630680551155
Option 1 ID :	6306802154851
Option 2 ID :	6306802154850
Option 3 ID :	6306802154849
Option 4 ID :	6306802154852

Q.15 In the following sentence, four words are given in bold out of which one word is misspelled. Find the misspelled word
Arun's **parplexing** nature is the reason that he is in a **quandary** in almost all **excruciating** states of affairs.

- Ans**
- 1. Excruciating
 - 2. Quandary
 - 3. Affairs
 - 4. Parplexing

Question ID :	630680517327
Option 1 ID :	6306802021706
Option 2 ID :	6306802021705
Option 3 ID :	6306802021707
Option 4 ID :	6306802021704

Comprehension:

Read the given passage and answer the questions that follow.

Tremendous progress in child and maternal health has been achieved over the past decades. More infants today live to celebrate their fifth birthday, while fewer women lose their lives during pregnancy and childbirth.

But millions of women and children are still dying from causes that can be prevented with quality health care and strong health systems. Communicable and non-communicable diseases, mental health conditions, injuries, malnutrition, environmental hazards: All pose threats to children worldwide. Still, within and among countries, stark inequities persist when it comes to accessing life-saving care.

Women and children living in poverty, with a disability, or in an emergency setting are especially likely to be cut off from services they need to survive and thrive. And the risk of disease and malnutrition soars during conflict, natural disaster and other crises. Through it all, demographic changes threaten to strain global health systems.

SubQuestion No : 16

Q.16 What is the **ANTONYM** of the word 'thrive' from the passage?

- Ans**
- 1. Explore
 - 2. Fail
 - 3. Trace
 - 4. Stand

Question ID :	630680477220
Option 1 ID :	6306801864044
Option 2 ID :	6306801864042
Option 3 ID :	6306801864043
Option 4 ID :	6306801864041

Comprehension:	
Read the given passage and answer the questions that follow.	
Tremendous progress in child and maternal health has been achieved over the past decades. More infants today live to celebrate their fifth birthday, while fewer women lose their lives during pregnancy and childbirth.	
But millions of women and children are still dying from causes that can be prevented with quality health care and strong health systems. Communicable and non-communicable diseases, mental health conditions, injuries, malnutrition, environmental hazards: All pose threats to children worldwide. Still, within and among countries, stark inequities persist when it comes to accessing life-saving care.	
Women and children living in poverty, with a disability, or in an emergency setting are especially likely to be cut off from services they need to survive and thrive. And the risk of disease and malnutrition soars during conflict, natural disaster and other crises. Through it all, demographic changes threaten to strain global health systems.	
SubQuestion No : 17	
Q.17	What is being spoken about in the passage?
Ans	<input checked="" type="checkbox"/> 1. Health <input type="checkbox"/> 2. Demography <input type="checkbox"/> 3. Diseases <input type="checkbox"/> 4. Mental health

Question ID :	630680477223
Option 1 ID :	6306801864053
Option 2 ID :	6306801864055
Option 3 ID :	6306801864054
Option 4 ID :	6306801864056

Comprehension:	
Read the given passage and answer the questions that follow.	
Tremendous progress in child and maternal health has been achieved over the past decades. More infants today live to celebrate their fifth birthday, while fewer women lose their lives during pregnancy and childbirth.	
But millions of women and children are still dying from causes that can be prevented with quality health care and strong health systems. Communicable and non-communicable diseases, mental health conditions, injuries, malnutrition, environmental hazards: All pose threats to children worldwide. Still, within and among countries, stark inequities persist when it comes to accessing life-saving care.	
Women and children living in poverty, with a disability, or in an emergency setting are especially likely to be cut off from services they need to survive and thrive. And the risk of disease and malnutrition soars during conflict, natural disaster and other crises. Through it all, demographic changes threaten to strain global health systems.	
SubQuestion No : 18	
Q.18	What is the tone of the passage?
Ans	<input type="checkbox"/> 1. Bellicose <input type="checkbox"/> 2. Laudatory <input checked="" type="checkbox"/> 3. Humanistic <input type="checkbox"/> 4. Cynical

Question ID :	630680477221
Option 1 ID :	6306801864045
Option 2 ID :	6306801864048
Option 3 ID :	6306801864047
Option 4 ID :	6306801864046

Comprehension:	
Read the given passage and answer the questions that follow.	
Tremendous progress in child and maternal health has been achieved over the past decades. More infants today live to celebrate their fifth birthday, while fewer women lose their lives during pregnancy and childbirth.	
But millions of women and children are still dying from causes that can be prevented with quality health care and strong health systems. Communicable and non-communicable diseases, mental health conditions, injuries, malnutrition, environmental hazards: All pose threats to children worldwide. Still, within and among countries, stark inequities persist when it comes to accessing life-saving care.	
Women and children living in poverty, with a disability, or in an emergency setting are especially likely to be cut off from services they need to survive and thrive. And the risk of disease and malnutrition soars during conflict, natural disaster and other crises. Through it all, demographic changes threaten to strain global health systems.	
SubQuestion No : 19	
Q.19	What is the structure of the passage?
Ans	<input checked="" type="checkbox"/> 1. Critical <input type="checkbox"/> 2. Definitive <input type="checkbox"/> 3. Chronological <input type="checkbox"/> 4. Descriptive

Question ID :	630680477217
Option 1 ID :	6306801864032
Option 2 ID :	6306801864029
Option 3 ID :	6306801864031
Option 4 ID :	6306801864030

Comprehension:	
Read the given passage and answer the questions that follow.	
Tremendous progress in child and maternal health has been achieved over the past decades. More infants today live to celebrate their fifth birthday, while fewer women lose their lives during pregnancy and childbirth.	
But millions of women and children are still dying from causes that can be prevented with quality health care and strong health systems. Communicable and non-communicable diseases, mental health conditions, injuries, malnutrition, environmental hazards: All pose threats to children worldwide. Still, within and among countries, stark inequities persist when it comes to accessing life-saving care.	
Women and children living in poverty, with a disability, or in an emergency setting are especially likely to be cut off from services they need to survive and thrive. And the risk of disease and malnutrition soars during conflict, natural disaster and other crises. Through it all, demographic changes threaten to strain global health systems.	
SubQuestion No : 20	
Q.20	What is the ANTONYM of the word 'soar' from the passage?
Ans	<input type="checkbox"/> 1. Trace <input type="checkbox"/> 2. Reveal <input type="checkbox"/> 3. Exist <input checked="" type="checkbox"/> 4. Diminish

Question ID :	630680477215
Option 1 ID :	6306801864024
Option 2 ID :	6306801864023
Option 3 ID :	6306801864022
Option 4 ID :	6306801864021

Section : Test of Hindi Language and Comprehension

Q.1	वाक्य क्रम में लिखें और उत्तर के रूप में सही विकल्प चुनें। लोकप्रिय कवि का सम्मान सभी करते हैं।										
Ans	<input checked="" type="checkbox"/> 1. लोकप्रिय कवि का सम्मान सभी जगह होते हैं। <input checked="" type="checkbox"/> 2. लोकप्रिय कवि का सम्मान सब लोग करता है। <input checked="" type="checkbox"/> 3. लोकप्रिय कवि का सम्मान सभी करते हैं। <input checked="" type="checkbox"/> 4. लोकप्रिय कवि सभी का सम्मान करते हैं।										
<table border="1"> <tr><td>Question ID :</td><td>630680783598</td></tr> <tr><td>Option 1 ID :</td><td>6306803070754</td></tr> <tr><td>Option 2 ID :</td><td>6306803070752</td></tr> <tr><td>Option 3 ID :</td><td>6306803070753</td></tr> <tr><td>Option 4 ID :</td><td>6306803070751</td></tr> </table>		Question ID :	630680783598	Option 1 ID :	6306803070754	Option 2 ID :	6306803070752	Option 3 ID :	6306803070753	Option 4 ID :	6306803070751
Question ID :	630680783598										
Option 1 ID :	6306803070754										
Option 2 ID :	6306803070752										
Option 3 ID :	6306803070753										
Option 4 ID :	6306803070751										
Q.2	निम्नलिखित शब्दों में से ह्रस्व का अनेकार्थि शब्द पहचानें।										
Ans	<input checked="" type="checkbox"/> 1. सामना <input checked="" type="checkbox"/> 2. आभूषण <input checked="" type="checkbox"/> 3. शत्रु <input checked="" type="checkbox"/> 4. दुष्ट										
<table border="1"> <tr><td>Question ID :</td><td>630680773192</td></tr> <tr><td>Option 1 ID :</td><td>6306803030698</td></tr> <tr><td>Option 2 ID :</td><td>6306803030697</td></tr> <tr><td>Option 3 ID :</td><td>6306803030699</td></tr> <tr><td>Option 4 ID :</td><td>6306803030700</td></tr> </table>		Question ID :	630680773192	Option 1 ID :	6306803030698	Option 2 ID :	6306803030697	Option 3 ID :	6306803030699	Option 4 ID :	6306803030700
Question ID :	630680773192										
Option 1 ID :	6306803030698										
Option 2 ID :	6306803030697										
Option 3 ID :	6306803030699										
Option 4 ID :	6306803030700										
Q.3	मीरा _____ खाना बनाया। - रिक्त स्थान के लिए उचित कारक चिह्न है-										
Ans	<input checked="" type="checkbox"/> 1. की <input checked="" type="checkbox"/> 2. ने <input checked="" type="checkbox"/> 3. से <input checked="" type="checkbox"/> 4. का										
<table border="1"> <tr><td>Question ID :</td><td>630680337457</td></tr> <tr><td>Option 1 ID :</td><td>6306801312551</td></tr> <tr><td>Option 2 ID :</td><td>6306801312550</td></tr> <tr><td>Option 3 ID :</td><td>6306801312552</td></tr> <tr><td>Option 4 ID :</td><td>6306801312549</td></tr> </table>		Question ID :	630680337457	Option 1 ID :	6306801312551	Option 2 ID :	6306801312550	Option 3 ID :	6306801312552	Option 4 ID :	6306801312549
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Option 1 ID :	6306801312551										
Option 2 ID :	6306801312550										
Option 3 ID :	6306801312552										
Option 4 ID :	6306801312549										
Q.4	वर्तनी शुद्ध करते हुए वाक्य शुद्ध करें और उत्तर के रूप में सही विकल्प चुनें। भागीरथी एक पवित्र नदी है।										
Ans	<input checked="" type="checkbox"/> 1. भगीरथि एक पवित्र नदी है। <input checked="" type="checkbox"/> 2. भागरथी एक पवित्र नदी है। <input checked="" type="checkbox"/> 3. भागीरथि एक पवित्र नदी है। <input checked="" type="checkbox"/> 4. भागीरथी एक पवित्र नदी है।										
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Question ID :	630680783493										
Option 1 ID :	6306803070335										
Option 2 ID :	6306803070337										
Option 3 ID :	6306803070336										
Option 4 ID :	6306803070338										

Q.5	वाक्यांश के लिए सार्थक शब्द दें और उत्तर के रूप में सही विकल्प चुनें। जो पर के अधीन है।										
Ans	<input checked="" type="checkbox"/> 1. स्वाधीन <input checked="" type="checkbox"/> 2. अधीनस्थ <input checked="" type="checkbox"/> 3. पराधीन <input checked="" type="checkbox"/> 4. पराधीनता										
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Question ID :	630680553468										
Option 1 ID :	6306802163767										
Option 2 ID :	6306802163765										
Option 3 ID :	6306802163766										
Option 4 ID :	6306802163764										
Q.6	कर्म कारक के लिए प्रयुक्त होने वाला चिन्ह.....है उपयुक्त विकल्प का चयन कर वाक्य पूर्ण करें -										
Ans	<input checked="" type="checkbox"/> 1. को <input checked="" type="checkbox"/> 2. से <input checked="" type="checkbox"/> 3. ने <input checked="" type="checkbox"/> 4. के लिए										
<table border="1"> <tr> <td>Question ID :</td> <td>630680790887</td> </tr> <tr> <td>Option 1 ID :</td> <td>6306803099279</td> </tr> <tr> <td>Option 2 ID :</td> <td>6306803099278</td> </tr> <tr> <td>Option 3 ID :</td> <td>6306803099276</td> </tr> <tr> <td>Option 4 ID :</td> <td>6306803099277</td> </tr> </table>		Question ID :	630680790887	Option 1 ID :	6306803099279	Option 2 ID :	6306803099278	Option 3 ID :	6306803099276	Option 4 ID :	6306803099277
Question ID :	630680790887										
Option 1 ID :	6306803099279										
Option 2 ID :	6306803099278										
Option 3 ID :	6306803099276										
Option 4 ID :	6306803099277										
Q.7	निम्नलिखित रिक्त स्थान की पूर्ति उचित क्रिया-विशेषण शब्द के माध्यम से करें। रवि _____ दौड़ता है।										
Ans	<input checked="" type="checkbox"/> 1. सड़क <input checked="" type="checkbox"/> 2. स्कूल <input checked="" type="checkbox"/> 3. तेज़ <input checked="" type="checkbox"/> 4. घर										
<table border="1"> <tr> <td>Question ID :</td> <td>630680192673</td> </tr> <tr> <td>Option 1 ID :</td> <td>630680747240</td> </tr> <tr> <td>Option 2 ID :</td> <td>630680747238</td> </tr> <tr> <td>Option 3 ID :</td> <td>630680747239</td> </tr> <tr> <td>Option 4 ID :</td> <td>630680747237</td> </tr> </table>		Question ID :	630680192673	Option 1 ID :	630680747240	Option 2 ID :	630680747238	Option 3 ID :	630680747239	Option 4 ID :	630680747237
Question ID :	630680192673										
Option 1 ID :	630680747240										
Option 2 ID :	630680747238										
Option 3 ID :	630680747239										
Option 4 ID :	630680747237										
Q.8	निम्नलिखित वाक्य में चिह्नित शब्द का उचित पर्यायवाची शब्द पहचानें। मनोज से कह दो कि वह जल्दी आए।										
Ans	<input checked="" type="checkbox"/> 1. इन्द्र <input checked="" type="checkbox"/> 2. कामदेव <input checked="" type="checkbox"/> 3. कृष्ण <input checked="" type="checkbox"/> 4. विष्णु										
<table border="1"> <tr> <td>Question ID :</td> <td>630680810257</td> </tr> <tr> <td>Option 1 ID :</td> <td>6306803174562</td> </tr> <tr> <td>Option 2 ID :</td> <td>6306803174559</td> </tr> <tr> <td>Option 3 ID :</td> <td>6306803174560</td> </tr> <tr> <td>Option 4 ID :</td> <td>6306803174561</td> </tr> </table>		Question ID :	630680810257	Option 1 ID :	6306803174562	Option 2 ID :	6306803174559	Option 3 ID :	6306803174560	Option 4 ID :	6306803174561
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Option 1 ID :	6306803174562										
Option 2 ID :	6306803174559										
Option 3 ID :	6306803174560										
Option 4 ID :	6306803174561										

Q.9	निम्नलिखित में से अशुद्ध वाक्यांश है-										
Ans	<input checked="" type="checkbox"/> 1. घनघोर <input type="checkbox"/> 2. संबंध है <input type="checkbox"/> 3. साहित्य <input type="checkbox"/> 4. और जीवन का										
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Question ID :	630680510560										
Option 1 ID :	6306801995372										
Option 2 ID :	6306801995373										
Option 3 ID :	6306801995370										
Option 4 ID :	6306801995371										
Q.10	'नगर मे रहने वाला' वाक्यांश के लिए सार्थक शब्द इनमें से कौन-सा है?										
Ans	<input type="checkbox"/> 1. नागरी <input type="checkbox"/> 2. ग्रामीण <input checked="" type="checkbox"/> 3. नागरिक <input type="checkbox"/> 4. नगरीय										
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Option 1 ID :	630680794620										
Option 2 ID :	630680794622										
Option 3 ID :	630680794619										
Option 4 ID :	630680794621										
Q.11	निम्नलिखित वाक्य में चिन्हित शब्द का उचित पर्यायवाची शब्द पहचानें। आज मौसम में बहुत अधिक तपन है।										
Ans	<input type="checkbox"/> 1. रूत <input type="checkbox"/> 2. ऋतु <input checked="" type="checkbox"/> 3. ऊष्मा <input type="checkbox"/> 4. वृषभ										
<table border="1"> <tr> <td>Question ID :</td> <td>630680810256</td> </tr> <tr> <td>Option 1 ID :</td> <td>6306803174556</td> </tr> <tr> <td>Option 2 ID :</td> <td>6306803174557</td> </tr> <tr> <td>Option 3 ID :</td> <td>6306803174555</td> </tr> <tr> <td>Option 4 ID :</td> <td>6306803174558</td> </tr> </table>		Question ID :	630680810256	Option 1 ID :	6306803174556	Option 2 ID :	6306803174557	Option 3 ID :	6306803174555	Option 4 ID :	6306803174558
Question ID :	630680810256										
Option 1 ID :	6306803174556										
Option 2 ID :	6306803174557										
Option 3 ID :	6306803174555										
Option 4 ID :	6306803174558										
Q.12	इंदौर स्वच्छ नगर है, यहाँ विशेषण का कौन सा भेद है?										
Ans	<input checked="" type="checkbox"/> 1. गुणवाचक <input type="checkbox"/> 2. सार्वनामिक <input type="checkbox"/> 3. परिमाणवाचक <input type="checkbox"/> 4. संख्यावाचक										
<table border="1"> <tr> <td>Question ID :</td> <td>630680176155</td> </tr> <tr> <td>Option 1 ID :</td> <td>630680682856</td> </tr> <tr> <td>Option 2 ID :</td> <td>630680682859</td> </tr> <tr> <td>Option 3 ID :</td> <td>630680682858</td> </tr> <tr> <td>Option 4 ID :</td> <td>630680682857</td> </tr> </table>		Question ID :	630680176155	Option 1 ID :	630680682856	Option 2 ID :	630680682859	Option 3 ID :	630680682858	Option 4 ID :	630680682857
Question ID :	630680176155										
Option 1 ID :	630680682856										
Option 2 ID :	630680682859										
Option 3 ID :	630680682858										
Option 4 ID :	630680682857										

Q.13	निम्नलिखित वाक्य को क्रम में लिखें। 1 हमारा कार्य पूरा 2 मेरे साथ नहीं गए तो 3 नहीं हो सकेगा 4 यदि तुम कल
Ans	<input checked="" type="checkbox"/> 1. 1234 <input checked="" type="checkbox"/> 2. 2341 <input checked="" type="checkbox"/> 3. 4213 <input checked="" type="checkbox"/> 4. 3412

Question ID :	630680810196
Option 1 ID :	6306803174321
Option 2 ID :	6306803174320
Option 3 ID :	6306803174319
Option 4 ID :	6306803174322

Q.14	'मुँह फिर जाना' मुहावरे से क्या तात्पर्य है?
Ans	<input checked="" type="checkbox"/> 1. मतलब समाप्त हो जाना <input checked="" type="checkbox"/> 2. परेशान होना <input checked="" type="checkbox"/> 3. सामर्थ्य न होना <input checked="" type="checkbox"/> 4. थोड़े में ही इतरा जाना

Question ID :	630680309780
Option 1 ID :	6306801205272
Option 2 ID :	6306801205270
Option 3 ID :	6306801205271
Option 4 ID :	6306801205269

Q.15	'आए थे हरिभजन को , ओटन लगे कपास' लोकोक्ति का अर्थ है -
Ans	<input checked="" type="checkbox"/> 1. कर्म से ही फल की प्राप्ति होती है <input checked="" type="checkbox"/> 2. करने आए थे कुछ और करने लगे कुछ और <input checked="" type="checkbox"/> 3. परिश्रम का फल अवश्य मिलता है <input checked="" type="checkbox"/> 4. कहीं ठौर ठिकाना न होना

Question ID :	630680125685
Option 1 ID :	630680487401
Option 2 ID :	630680487399
Option 3 ID :	630680487400
Option 4 ID :	630680487398

Comprehension:											
अशोककालीन संस्कृत में लिपि या लिपिक के लिए कोई शब्द न था इसलिए ये शब्द फ़ारसी से लेने पड़े। अशोक ने जो लिपि इस्तेमाल की, वह पवित्र ब्राह्मी लिपि भी उनके काल से कोई बहुत पुरानी नहीं थी। यह ब्राह्मी जो बायें से दायें लिखी जाती थी, हद से हद अशोक से एक सदी पहले जन्मी थी। स्वीकार किया जाना चाहिए कि इसको भारत के बाहर कहीं से लाकर यहाँ प्रचलित किया गया था तथा उसको यहाँ उसी प्रकार अपना लिया गया था जिस प्रकार आर्य यूनानियों ने हिब्रू लिपि को दायें से बायें लिखने के बजाय बायें से दायें लिखने का परिवर्तन कर अपनाया था। हमें ब्राह्मी के भारत में या विदेशों में विकास की किसी भी मंज़िल का ज्ञान नहीं है। उसका सिन्धु घाटी की भाव-चित्र लिपि से भी कोई सम्बन्ध नहीं जोड़ा जा सकता क्योंकि उसका यकायक अन्त हो गया, अनुमानतः लेखन से बिलकुल अनजान वैदिक आर्यों ने उस सभ्यता का नाश कर दिया। सिन्धु लिपि के विलुप्त हो जाने, यानी 15वीं सदी ई.पू. से लेकर ब्राह्मी के उदय, यानी 5वीं सदी ई. पू. तक एक लम्बा काल-व्यवधान है।											
SubQuestion No : 16											
Q.16	अशोक द्वारा इस्तेमाल की गई ब्राह्मी लिपि :										
Ans	<p><input type="checkbox"/> 1. सिन्धु लिपि से पुरानी है।</p> <p><input type="checkbox"/> 2. मिस्र के पिरामिडों पर अंकित चित्र लिपि जितनी पुरानी है।</p> <p><input type="checkbox"/> 3. इसकी शुरुआत अशोक के समय में हुई।</p> <p><input checked="" type="checkbox"/> 4. अशोक से थोड़े ही समय पहले अस्तित्व में आई थी।</p>										
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Option 1 ID :	630680397603										
Option 2 ID :	630680397604										
Option 3 ID :	630680397606										
Option 4 ID :	630680397605										
Comprehension:											
अशोककालीन संस्कृत में लिपि या लिपिक के लिए कोई शब्द न था इसलिए ये शब्द फ़ारसी से लेने पड़े। अशोक ने जो लिपि इस्तेमाल की, वह पवित्र ब्राह्मी लिपि भी उनके काल से कोई बहुत पुरानी नहीं थी। यह ब्राह्मी जो बायें से दायें लिखी जाती थी, हद से हद अशोक से एक सदी पहले जन्मी थी। स्वीकार किया जाना चाहिए कि इसको भारत के बाहर कहीं से लाकर यहाँ प्रचलित किया गया था तथा उसको यहाँ उसी प्रकार अपना लिया गया था जिस प्रकार आर्य यूनानियों ने हिब्रू लिपि को दायें से बायें लिखने के बजाय बायें से दायें लिखने का परिवर्तन कर अपनाया था। हमें ब्राह्मी के भारत में या विदेशों में विकास की किसी भी मंज़िल का ज्ञान नहीं है। उसका सिन्धु घाटी की भाव-चित्र लिपि से भी कोई सम्बन्ध नहीं जोड़ा जा सकता क्योंकि उसका यकायक अन्त हो गया, अनुमानतः लेखन से बिलकुल अनजान वैदिक आर्यों ने उस सभ्यता का नाश कर दिया। सिन्धु लिपि के विलुप्त हो जाने, यानी 15वीं सदी ई.पू. से लेकर ब्राह्मी के उदय, यानी 5वीं सदी ई. पू. तक एक लम्बा काल-व्यवधान है।											
SubQuestion No : 17											
Q.17	वर्तमान रूप में प्रचलित संस्कृत के शब्द :										
Ans	<p><input type="checkbox"/> 1. भारतीय भाषाओं के शब्दों का संस्कार करके बने हैं।</p> <p><input type="checkbox"/> 2. लोकभाषा प्राकृत के शब्दों से बने हैं।</p> <p><input checked="" type="checkbox"/> 3. भारत के बाहर की भाषाओं से भी लिए गए हैं।</p> <p><input type="checkbox"/> 4. मूलतः संस्कृत भाषा के ही हैं।</p>										
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Option 1 ID :	630680397599										
Option 2 ID :	630680397600										
Option 3 ID :	630680397602										
Option 4 ID :	630680397601										

Comprehension:											
अशोककालीन संस्कृत में लिपि या लिपिक के लिए कोई शब्द न था इसलिए ये शब्द फ़ारसी से लेने पड़े। अशोक ने जो लिपि इस्तेमाल की, वह पवित्र ब्राह्मी लिपि भी उनके काल से कोई बहुत पुरानी नहीं थी। यह ब्राह्मी जो बायें से दायें लिखी जाती थी, हद से हद अशोक से एक सदी पहले जन्मी थी। स्वीकार किया जाना चाहिए कि इसको भारत के बाहर कहीं से लाकर यहाँ प्रचलित किया गया था तथा उसको यहाँ उसी प्रकार अपना लिया गया था जिस प्रकार आर्य यूनानियों ने हिब्रू लिपि को दायें से बायें लिखने के बजाय बायें से दायें लिखने का परिवर्तन कर अपनाया था। हमें ब्राह्मी के भारत में या विदेशों में विकास की किसी भी मंज़िल का ज्ञान नहीं है। उसका सिन्धु घाटी की भाव-चित्र लिपि से भी कोई सम्बन्ध नहीं जोड़ा जा सकता क्योंकि उसका यकायक अन्त हो गया, अनुमानतः लेखन से बिलकुल अनजान वैदिक आर्यों ने उस सभ्यता का नाश कर दिया। सिन्धु लिपि के विलुप्त हो जाने, यानी 15वीं सदी ई.पू. से लेकर ब्राह्मी के उदय, यानी 5वीं सदी ई. पू. तक एक लम्बा काल-व्यवधान है।											
SubQuestion No : 18											
Q.18	ब्राह्मी लिपि का विकास कब हुआ?										
Ans	<input checked="" type="checkbox"/> 1. ईसा की पहली शताब्दी। <input checked="" type="checkbox"/> 2. ईसा पूर्व पांचवीं शताब्दी। <input checked="" type="checkbox"/> 3. ईसा पूर्व पहली शताब्दी। <input checked="" type="checkbox"/> 4. सिकंदर के भारत पर आक्रमण के समय।										
<table border="1"> <tr> <td>Question ID :</td> <td>630680102336</td> </tr> <tr> <td>Option 1 ID :</td> <td>630680397612</td> </tr> <tr> <td>Option 2 ID :</td> <td>630680397613</td> </tr> <tr> <td>Option 3 ID :</td> <td>630680397611</td> </tr> <tr> <td>Option 4 ID :</td> <td>630680397614</td> </tr> </table>		Question ID :	630680102336	Option 1 ID :	630680397612	Option 2 ID :	630680397613	Option 3 ID :	630680397611	Option 4 ID :	630680397614
Question ID :	630680102336										
Option 1 ID :	630680397612										
Option 2 ID :	630680397613										
Option 3 ID :	630680397611										
Option 4 ID :	630680397614										
Comprehension:											
अशोककालीन संस्कृत में लिपि या लिपिक के लिए कोई शब्द न था इसलिए ये शब्द फ़ारसी से लेने पड़े। अशोक ने जो लिपि इस्तेमाल की, वह पवित्र ब्राह्मी लिपि भी उनके काल से कोई बहुत पुरानी नहीं थी। यह ब्राह्मी जो बायें से दायें लिखी जाती थी, हद से हद अशोक से एक सदी पहले जन्मी थी। स्वीकार किया जाना चाहिए कि इसको भारत के बाहर कहीं से लाकर यहाँ प्रचलित किया गया था तथा उसको यहाँ उसी प्रकार अपना लिया गया था जिस प्रकार आर्य यूनानियों ने हिब्रू लिपि को दायें से बायें लिखने के बजाय बायें से दायें लिखने का परिवर्तन कर अपनाया था। हमें ब्राह्मी के भारत में या विदेशों में विकास की किसी भी मंज़िल का ज्ञान नहीं है। उसका सिन्धु घाटी की भाव-चित्र लिपि से भी कोई सम्बन्ध नहीं जोड़ा जा सकता क्योंकि उसका यकायक अन्त हो गया, अनुमानतः लेखन से बिलकुल अनजान वैदिक आर्यों ने उस सभ्यता का नाश कर दिया। सिन्धु लिपि के विलुप्त हो जाने, यानी 15वीं सदी ई.पू. से लेकर ब्राह्मी के उदय, यानी 5वीं सदी ई. पू. तक एक लम्बा काल-व्यवधान है।											
SubQuestion No : 19											
Q.19	सिन्धु घाटी सभ्यता और उसकी भाव-चित्र लिपि का नाश किसकी वजह से हुआ?										
Ans	<input checked="" type="checkbox"/> 1. संभवतः वैदिक आर्यों के कारण। <input checked="" type="checkbox"/> 2. भारत के अनाथों के कारण। <input checked="" type="checkbox"/> 3. अनुमानतः यूनानी आर्यों के कारण। <input checked="" type="checkbox"/> 4. अशोक के कारण।										
<table border="1"> <tr> <td>Question ID :</td> <td>630680102337</td> </tr> <tr> <td>Option 1 ID :</td> <td>630680397615</td> </tr> <tr> <td>Option 2 ID :</td> <td>630680397617</td> </tr> <tr> <td>Option 3 ID :</td> <td>630680397618</td> </tr> <tr> <td>Option 4 ID :</td> <td>630680397616</td> </tr> </table>		Question ID :	630680102337	Option 1 ID :	630680397615	Option 2 ID :	630680397617	Option 3 ID :	630680397618	Option 4 ID :	630680397616
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Option 2 ID :	630680397617										
Option 3 ID :	630680397618										
Option 4 ID :	630680397616										

Comprehension:	
<p>अशोककालीन संस्कृत में लिपि या लिपिक के लिए कोई शब्द न था इसलिए ये शब्द फ़ारसी से लेने पड़े। अशोक ने जो लिपि इस्तेमाल की, वह पवित्र ब्राह्मी लिपि भी उनके काल से कोई बहुत पुरानी नहीं थी। यह ब्राह्मी जो बायें से दायें लिखी जाती थी, हद से हद अशोक से एक सदी पहले जन्मी थी। स्वीकार किया जाना चाहिए कि इसको भारत के बाहर कहीं से लाकर यहाँ प्रचलित किया गया था तथा उसको यहाँ उसी प्रकार अपना लिया गया था जिस प्रकार आर्य यूनानियों ने हिब्रू लिपि को दायें से बायें लिखने के बजाय बायें से दायें लिखने का परिवर्तन कर अपनाया था। हमें ब्राह्मी के भारत में या विदेशों में विकास की किसी भी मंज़िल का ज्ञान नहीं है। उसका सिन्धु घाटी की भाव-चित्र लिपि से भी कोई सम्बन्ध नहीं जोड़ा जा सकता क्योंकि उसका यकायक अन्त हो गया, अनुमानतः लेखन से बिलकुल अनजान वैदिक आर्यों ने उस सभ्यता का नाश कर दिया। सिन्धु लिपि के विलुप्त हो जाने, यानी 15वीं सदी ई.पू. से लेकर ब्राह्मी के उदय, यानी 5वीं सदी ई. पू. तक एक लम्बा काल-व्यवधान है।</p>	
SubQuestion No : 20	
Q.20	आर्य यूनानियों ने हिब्रू लिपि को किस तरह अपनाया?
Ans	<p><input checked="" type="checkbox"/> 1. उसकी वर्णमाला में नये वर्ण शामिल कर के।</p> <p><input checked="" type="checkbox"/> 2. दायें से बाएं की बजाय बाएं से दायें लिखकर।</p> <p><input checked="" type="checkbox"/> 3. उसमें चित्र-लिपि का संगम करके।</p> <p><input checked="" type="checkbox"/> 4. उसकी वर्णमाला के क्रम में बदलाव करके।</p>

Question ID :	630680102335
Option 1 ID :	630680397609
Option 2 ID :	630680397608
Option 3 ID :	630680397610
Option 4 ID :	630680397607

Section : Discipline1	
Q.1	<p>A circular racetrack of radius 500 m is banked at an angle of 45°. If the coefficient of friction between the wheels of a race car and the road is 0.5, what will be the maximum permissible speed to avoid slipping?</p> <p>(Take $g = 10 \text{ m/s}^2$)</p>
Ans	<p><input checked="" type="checkbox"/> 1. $100\sqrt{2} \text{ m/s}$</p> <p><input checked="" type="checkbox"/> 2. $24\sqrt{5} \text{ m/s}$</p> <p><input checked="" type="checkbox"/> 3. $50\sqrt{6} \text{ m/s}$</p> <p><input checked="" type="checkbox"/> 4. $30\sqrt{2} \text{ m/s}$</p>

Question ID :	630680946444
Option 1 ID :	6306803710499
Option 2 ID :	6306803710500
Option 3 ID :	6306803710498
Option 4 ID :	6306803710497

Q.2	For a diatomic molecule at room temperature, how many degrees of freedom are typically active?
Ans	<p><input checked="" type="checkbox"/> 1. 7</p> <p><input checked="" type="checkbox"/> 2. 5</p> <p><input checked="" type="checkbox"/> 3. 6</p> <p><input checked="" type="checkbox"/> 4. 3</p>

Question ID :	630680946570
Option 1 ID :	6306803710996
Option 2 ID :	6306803710994
Option 3 ID :	6306803710995
Option 4 ID :	6306803710993

Q.3 If the 9th term of a geometric progression is $\frac{2}{3}$, then the product of the 5th, 8th and 14th terms of the G.P. is _____.

- Ans
- 1. $\frac{4}{9}$
 - 2. $\frac{1}{6}$
 - 3. $\frac{16}{81}$
 - 4. $\frac{8}{27}$

Question ID :	630680947120
Option 1 ID :	6306803713181
Option 2 ID :	6306803713183
Option 3 ID :	6306803713182
Option 4 ID :	6306803713180

Q.4 Gay-Lussac's Law is connected to _____.

- Ans
- 1. Dalton's theory
 - 2. Slater's theory
 - 3. Law of mass action
 - 4. Avogadro Hypothesis

Question ID :	630680953949
Option 1 ID :	6306803740002
Option 2 ID :	6306803740001
Option 3 ID :	6306803740003
Option 4 ID :	6306803740004

Q.5 Given that vector \vec{A} has a magnitude of 10 and makes angles of 60°, 45° and 60° with x, y and z axes, respectively, the components of vector \vec{A} are:

- Ans
- 1. $(5\hat{i}, 5\sqrt{3}\hat{j}, 5\hat{k})$
 - 2. $(5\hat{i}, 5\sqrt{2}\hat{j}, 5\hat{k})$
 - 3. $(5\hat{i}, 5\hat{j}, 5\sqrt{3}\hat{k})$
 - 4. $(5\sqrt{3}\hat{i}, 5\sqrt{2}\hat{j}, 5\hat{k})$

Question ID :	630680946415
Option 1 ID :	6306803710382
Option 2 ID :	6306803710381
Option 3 ID :	6306803710384
Option 4 ID :	6306803710383

Q.6 Let $S = \{x_1, x_2, \dots, x_6\}$ be the sample space of a random experiment. Let $c \in \mathbb{R}$ be such that probability $p(x_i) = ci$, for each $i = 1, 2, \dots, 6$ and $E = \{x_i : i \text{ is even}, 1 \leq i \leq 6\}$. Then $p(E) = \underline{\hspace{2cm}}$.

- Ans
- 1. $2/3$
 - 2. $7/9$
 - 3. $8/21$
 - 4. $4/7$

Question ID :	630680948451
Option 1 ID :	6306803718529
Option 2 ID :	6306803718531
Option 3 ID :	6306803718528
Option 4 ID :	6306803718530

Q.7 बीज का कौन-सा भाग मुख्य रूप से विकासशील पौधे के लिए भोजन का संग्रहण करता है?

- Ans
- 1. भ्रूण (Embryo)
 - 2. भ्रूणपोष (Endosperm)
 - 3. बीजावरण (Seed coat)
 - 4. बीजपत्र (Cotyledon)

Question ID :	630680946818
Option 1 ID :	6306803711975
Option 2 ID :	6306803711973
Option 3 ID :	6306803711972
Option 4 ID :	6306803711974

Q.8 In which year did the United Nations and other international agencies declare child marriage as a violation of human rights?

- Ans
- 1. 1968
 - 2. 1948
 - 3. 1958
 - 4. 1938

Question ID :	630680946764
Option 1 ID :	6306803711771
Option 2 ID :	6306803711768
Option 3 ID :	6306803711769
Option 4 ID :	6306803711770

Q.9 Two-point charges, $+3Q$ and $-Q$, are placed 2 metres apart. What is the point along the line joining the charges where the electric potential is zero?

- Ans
- 1. 1 metre from $-Q$
 - 2. 1.5 metre from $+3Q$
 - 3. 1 metre from $+3Q$
 - 4. 0.5 metre from $+3Q$

Question ID :	630680946676
Option 1 ID :	6306803711419
Option 2 ID :	6306803711418
Option 3 ID :	6306803711416
Option 4 ID :	6306803711417

Q.10	For two data sets, each of size 4, the variances are given to be 5 and 6, respectively. If the corresponding mean of each data set is 3 and 4, respectively, then the variance of the combined data set is _____.										
Ans	<input checked="" type="checkbox"/> 1. $\frac{23}{4}$ <input type="checkbox"/> 2. $\frac{19}{4}$ <input type="checkbox"/> 3. $\frac{13}{4}$ <input type="checkbox"/> 4. $\frac{17}{4}$										
<table border="1"> <tr><td>Question ID :</td><td>630680947381</td></tr> <tr><td>Option 1 ID :</td><td>6306803714222</td></tr> <tr><td>Option 2 ID :</td><td>6306803714221</td></tr> <tr><td>Option 3 ID :</td><td>6306803714223</td></tr> <tr><td>Option 4 ID :</td><td>6306803714220</td></tr> </table>		Question ID :	630680947381	Option 1 ID :	6306803714222	Option 2 ID :	6306803714221	Option 3 ID :	6306803714223	Option 4 ID :	6306803714220
Question ID :	630680947381										
Option 1 ID :	6306803714222										
Option 2 ID :	6306803714221										
Option 3 ID :	6306803714223										
Option 4 ID :	6306803714220										
Q.11	For a diatomic gas, such as molecular hydrogen (H ₂) or oxygen (O ₂), which of the following statements regarding specific heat capacities C _v and C _p is correct?										
Ans	<input checked="" type="checkbox"/> 1. C _p is greater than C _v <input type="checkbox"/> 2. C _v is greater than C _p <input type="checkbox"/> 3. C _v = C _p <input type="checkbox"/> 4. C _p = 5/2 R and C _v = 7/2 R										
<table border="1"> <tr><td>Question ID :</td><td>630680946499</td></tr> <tr><td>Option 1 ID :</td><td>6306803710718</td></tr> <tr><td>Option 2 ID :</td><td>6306803710717</td></tr> <tr><td>Option 3 ID :</td><td>6306803710719</td></tr> <tr><td>Option 4 ID :</td><td>6306803710720</td></tr> </table>		Question ID :	630680946499	Option 1 ID :	6306803710718	Option 2 ID :	6306803710717	Option 3 ID :	6306803710719	Option 4 ID :	6306803710720
Question ID :	630680946499										
Option 1 ID :	6306803710718										
Option 2 ID :	6306803710717										
Option 3 ID :	6306803710719										
Option 4 ID :	6306803710720										
Q.12	In a protein, which type of residue primarily absorbs in the UV region (around 280 nm)?										
Ans	<input type="checkbox"/> 1. Acidic residues <input type="checkbox"/> 2. Polar residues <input type="checkbox"/> 3. Nonpolar residues <input checked="" type="checkbox"/> 4. Aromatic residues										
<table border="1"> <tr><td>Question ID :</td><td>630680952316</td></tr> <tr><td>Option 1 ID :</td><td>6306803733904</td></tr> <tr><td>Option 2 ID :</td><td>6306803733902</td></tr> <tr><td>Option 3 ID :</td><td>6306803733901</td></tr> <tr><td>Option 4 ID :</td><td>6306803733903</td></tr> </table>		Question ID :	630680952316	Option 1 ID :	6306803733904	Option 2 ID :	6306803733902	Option 3 ID :	6306803733901	Option 4 ID :	6306803733903
Question ID :	630680952316										
Option 1 ID :	6306803733904										
Option 2 ID :	6306803733902										
Option 3 ID :	6306803733901										
Option 4 ID :	6306803733903										

Q.13 If $2h + k = 6$, then the shortest distance between the points $A(h, 0)$ and $B(0, k)$ is _____.

- Ans
- 1. $\frac{3}{5}$
 - 2. $\frac{6\sqrt{5}}{5}$
 - 3. $\frac{6}{5\sqrt{5}}$
 - 4. $\frac{3}{\sqrt{5}}$

Question ID :	630680947176
Option 1 ID :	6306803713400
Option 2 ID :	6306803713402
Option 3 ID :	6306803713403
Option 4 ID :	6306803713401

Q.14 $\lim_{x \rightarrow 0} \frac{\sqrt{2+x} - \sqrt{2-x}}{\sqrt{1+4x} - \sqrt{1-4x}} = \text{_____}$.

- Ans
- 1. $\frac{1}{\sqrt{2}}$
 - 2. $\frac{1}{4\sqrt{2}}$
 - 3. $\frac{1}{2\sqrt{2}}$
 - 4. $\frac{1}{8\sqrt{2}}$

Question ID :	630680947189
Option 1 ID :	6306803713455
Option 2 ID :	6306803713453
Option 3 ID :	6306803713454
Option 4 ID :	6306803713452

Q.15 Which of the following lowers the force of attraction between the oppositely charged ions in aqueous solution?

- Ans
- 1. Concentration of ions
 - 2. High dielectric constant of water
 - 3. Low viscosity of the aqueous solution
 - 4. Surface tension of the aqueous solution

Question ID :	630680946166
Option 1 ID :	6306803709388
Option 2 ID :	6306803709387
Option 3 ID :	6306803709386
Option 4 ID :	6306803709389

Q.16 A particle moves in a straight line with an initial velocity of 5 m/s and a constant acceleration of 2 m/s². After 6 seconds, the acceleration changes to -3 m/s². Calculate the total distance travelled by the particle in the first 10 seconds.

- Ans**
- 1. 85 m
 - 2. 110 m
 - 3. 125 m
 - 4. 150 m

Question ID :	630680946371
Option 1 ID :	6306803710207
Option 2 ID :	6306803710206
Option 3 ID :	6306803710208
Option 4 ID :	6306803710205

Q.17 How does water behave as it cools from 4°C to 0°C?

- Ans**
- 1. It contracts
 - 2. Its viscosity decreases
 - 3. It expands
 - 4. Its density increases

Question ID :	630680952297
Option 1 ID :	6306803733825
Option 2 ID :	6306803733828
Option 3 ID :	6306803733826
Option 4 ID :	6306803733827

Q.18 Molecular formula and empirical formula of phenyl acetate are _____.

- Ans**
- 1. C₈H₁₀O₂ and C₄H₅O
 - 2. C₈H₈O₂ and C₄H₄O
 - 3. C₁₀H₁₂O₂ and C₅H₆O
 - 4. C₁₂H₁₂O₃ and C₄H₄O

Question ID :	630680946107
Option 1 ID :	6306803709165
Option 2 ID :	6306803709164
Option 3 ID :	6306803709163
Option 4 ID :	6306803709162

Q.19 In which solvent is benzoic acid NOT soluble?

- Ans**
- 1. Ethanol
 - 2. Acetic acid
 - 3. Hexane
 - 4. Methanol

Question ID :	630680953723
Option 1 ID :	6306803739099
Option 2 ID :	6306803739097
Option 3 ID :	6306803739098
Option 4 ID :	6306803739100

Q.20 If 'P' and 'V' are the pressure and volume of a gas, respectively, 'T' is the temperature, 'M' is the molecular mass and 'R' is the gas constant, then which of the following expressions is correct to identify the density of an ideal gas?

Ans

<input type="checkbox"/>	1. $\frac{RT}{PM}$
<input checked="" type="checkbox"/>	2. $\frac{PM}{RT}$
<input type="checkbox"/>	3. $\frac{P}{RT}$
<input type="checkbox"/>	4. $\frac{M}{V}$

Question ID :	630680954026
Option 1 ID :	6306803740305
Option 2 ID :	6306803740306
Option 3 ID :	6306803740304
Option 4 ID :	6306803740307

Section : Discipline2

Q.1 Which statistical test would be most appropriate for comparing the means of a continuous variable between two groups?

Ans

<input checked="" type="checkbox"/>	1. T-test
<input type="checkbox"/>	2. Correlation analysis
<input type="checkbox"/>	3. Chi-square test
<input type="checkbox"/>	4. ANOVA

Question ID :	630680952486
Option 1 ID :	6306803734578
Option 2 ID :	6306803734580
Option 3 ID :	6306803734577
Option 4 ID :	6306803734579

Q.2 Which of the following statements about the use of mercury in biomedical waste is true?

Ans

<input type="checkbox"/>	1. Mercury is not commonly found in biomedical waste.
<input type="checkbox"/>	2. Mercury is not harmful when disposed of in regular landfill sites.
<input type="checkbox"/>	3. Mercury is widely used in biomedical equipment due to its stability and non-toxic nature.
<input checked="" type="checkbox"/>	4. Mercury thermometers are commonly used in hospitals.

Question ID :	630680952405
Option 1 ID :	6306803734260
Option 2 ID :	6306803734259
Option 3 ID :	6306803734257
Option 4 ID :	6306803734258

Q.3 What type of scale is used for measuring temperature in Kelvin?

Ans

<input type="checkbox"/>	1. Nominal scale
<input type="checkbox"/>	2. Ordinal scale
<input type="checkbox"/>	3. Interval scale
<input checked="" type="checkbox"/>	4. Ratio scale

Question ID :	630680952476
Option 1 ID :	6306803734537
Option 2 ID :	6306803734538
Option 3 ID :	6306803734539
Option 4 ID :	6306803734540

Q.4 A hollow metal sphere of radius R has a total charge Q distributed uniformly on its surface. At what distance from the centre of the sphere is the electric field strength equal to one-half its value at the surface of the sphere?

Ans 1. 2R
 2. $\frac{R}{\sqrt{2}}$
 3. R
 4. $R\sqrt{2}$

Question ID :	630680946623
Option 1 ID :	6306803711205
Option 2 ID :	6306803711206
Option 3 ID :	6306803711207
Option 4 ID :	6306803711204

Q.5 If I is the interval such that $x \in I \Leftrightarrow \frac{2x-3}{4} \leq \frac{1-x}{2} \leq \frac{x-1}{3}$, then the length of interval I = _____.

Ans 1. 1
 2. $\frac{1}{4}$
 3. $\frac{5}{4}$
 4. $\frac{9}{4}$

Question ID :	630680944867
Option 1 ID :	6306803704243
Option 2 ID :	6306803704242
Option 3 ID :	6306803704244
Option 4 ID :	6306803704245

Q.6 For an object moving with uniform acceleration, which of the following statements is true?

Ans 1. The position-time graph is a horizontal line
 2. The velocity-time graph is a straight line with a non-zero slope
 3. The velocity-time graph is a horizontal line
 4. The position-time graph is a straight line

Question ID :	630680946390
Option 1 ID :	6306803710284
Option 2 ID :	6306803710283
Option 3 ID :	6306803710281
Option 4 ID :	6306803710282

Q.7	A 0.25 kg mass on a spring has a maximum acceleration of 4 m/s^2 when displaced from equilibrium. If the spring constant is 16 N/m, what is the amplitude of oscillation?										
Ans	<p><input type="checkbox"/> 1. $\frac{11}{200} \text{ m}$</p> <p><input type="checkbox"/> 2. $\frac{7}{200} \text{ m}$</p> <p><input checked="" type="checkbox"/> 3. $\frac{1}{16} \text{ m}$</p> <p><input type="checkbox"/> 4. $\frac{1}{25} \text{ m}$</p>										
<table border="1"> <tr><td>Question ID :</td><td>630680946589</td></tr> <tr><td>Option 1 ID :</td><td>6306803711071</td></tr> <tr><td>Option 2 ID :</td><td>6306803711069</td></tr> <tr><td>Option 3 ID :</td><td>6306803711070</td></tr> <tr><td>Option 4 ID :</td><td>6306803711068</td></tr> </table>		Question ID :	630680946589	Option 1 ID :	6306803711071	Option 2 ID :	6306803711069	Option 3 ID :	6306803711070	Option 4 ID :	6306803711068
Question ID :	630680946589										
Option 1 ID :	6306803711071										
Option 2 ID :	6306803711069										
Option 3 ID :	6306803711070										
Option 4 ID :	6306803711068										
Q.8	Which of the following complexes does NOT show optical isomerism?										
Ans	<p><input type="checkbox"/> 1. $[\text{Co}(\text{EDTA})]^-$</p> <p><input checked="" type="checkbox"/> 2. $\text{Trans-}[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$</p> <p><input type="checkbox"/> 3. $[\text{Cr}(\text{ox})_3]^{3-}$</p> <p><input type="checkbox"/> 4. $[\text{Co}(\text{en})(\text{NH}_3)_2\text{Cl}_2]$</p>										
<table border="1"> <tr><td>Question ID :</td><td>630680955324</td></tr> <tr><td>Option 1 ID :</td><td>6306803745312</td></tr> <tr><td>Option 2 ID :</td><td>6306803745314</td></tr> <tr><td>Option 3 ID :</td><td>6306803745311</td></tr> <tr><td>Option 4 ID :</td><td>6306803745313</td></tr> </table>		Question ID :	630680955324	Option 1 ID :	6306803745312	Option 2 ID :	6306803745314	Option 3 ID :	6306803745311	Option 4 ID :	6306803745313
Question ID :	630680955324										
Option 1 ID :	6306803745312										
Option 2 ID :	6306803745314										
Option 3 ID :	6306803745311										
Option 4 ID :	6306803745313										
Q.9	Haloalkanes are NOT directly used in the preparation of _____.										
Ans	<p><input type="checkbox"/> 1. alkenes</p> <p><input checked="" type="checkbox"/> 2. polymers</p> <p><input type="checkbox"/> 3. alkanes</p> <p><input type="checkbox"/> 4. alcohols</p>										
<table border="1"> <tr><td>Question ID :</td><td>630680954091</td></tr> <tr><td>Option 1 ID :</td><td>6306803740584</td></tr> <tr><td>Option 2 ID :</td><td>6306803740587</td></tr> <tr><td>Option 3 ID :</td><td>6306803740585</td></tr> <tr><td>Option 4 ID :</td><td>6306803740586</td></tr> </table>		Question ID :	630680954091	Option 1 ID :	6306803740584	Option 2 ID :	6306803740587	Option 3 ID :	6306803740585	Option 4 ID :	6306803740586
Question ID :	630680954091										
Option 1 ID :	6306803740584										
Option 2 ID :	6306803740587										
Option 3 ID :	6306803740585										
Option 4 ID :	6306803740586										
Q.10	What is the Clausius statement of the Second Law of Thermodynamics?										
Ans	<p><input type="checkbox"/> 1. The efficiency of a heat engine is always less than 100%.</p> <p><input checked="" type="checkbox"/> 2. Heat cannot spontaneously flow from a colder body to a hotter body.</p> <p><input type="checkbox"/> 3. No process is possible whose sole result is the complete conversion of heat into work.</p> <p><input type="checkbox"/> 4. Entropy always increases in a closed system.</p>										
<table border="1"> <tr><td>Question ID :</td><td>630680946514</td></tr> <tr><td>Option 1 ID :</td><td>6306803710776</td></tr> <tr><td>Option 2 ID :</td><td>6306803710774</td></tr> <tr><td>Option 3 ID :</td><td>6306803710775</td></tr> <tr><td>Option 4 ID :</td><td>6306803710773</td></tr> </table>		Question ID :	630680946514	Option 1 ID :	6306803710776	Option 2 ID :	6306803710774	Option 3 ID :	6306803710775	Option 4 ID :	6306803710773
Question ID :	630680946514										
Option 1 ID :	6306803710776										
Option 2 ID :	6306803710774										
Option 3 ID :	6306803710775										
Option 4 ID :	6306803710773										

Q.11 The coefficient of x^6 in the expansion of $\left(\frac{x}{3} - \frac{1}{2}\right)^9$ is _____.

Ans

- ✗ 1. $-\frac{14}{243}$
- ✗ 2. $-\frac{7}{324}$
- ✗ 3. $-\frac{21}{162}$
- ✓ 4. $-\frac{7}{486}$

Question ID :	630680947014
Option 1 ID :	6306803712755
Option 2 ID :	6306803712754
Option 3 ID :	6306803712753
Option 4 ID :	6306803712752

Q.1 Match the following.

Column I	Column II
a) $\{x \in \mathbb{R} : x^2 + 1 = 0\}$	i) $[0, 1)$
b) $\{x - [x] : x \in \mathbb{R}, \text{ where } [x] = n, \text{ for } n \leq x < n + 1\}$	ii) $(0, 1]$
c) $\{ \sin x : x \in (0, \pi)\}$	iii) $[0, 1]$
	iv) \emptyset

Ans

- ✓ 1. a \rightarrow iv, b \rightarrow i, c \rightarrow ii
- ✗ 2. a \rightarrow iii, b \rightarrow i, c \rightarrow ii
- ✗ 3. a \rightarrow iv, b \rightarrow ii, c \rightarrow iii
- ✗ 4. a \rightarrow iv, b \rightarrow i, c \rightarrow iii

Question ID :	630680944613
Option 1 ID :	6306803703249
Option 2 ID :	6306803703248
Option 3 ID :	6306803703247
Option 4 ID :	6306803703250

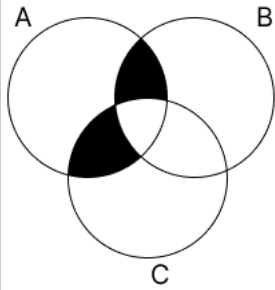
Q.13 Which of the following rules/principles is NOT associated with the filling up of electrons in orbitals?

Ans

- ✗ 1. Pauli's exclusion principle
- ✗ 2. Hund's rule
- ✓ 3. Fazan's rule
- ✗ 4. Aufbau principle

Question ID :	630680946290
Option 1 ID :	6306803709884
Option 2 ID :	6306803709881
Option 3 ID :	6306803709883
Option 4 ID :	6306803709882

Q.14 The shaded region in the given figure represents _____.



- Ans
- 1. $(B \cap (A \cup C)) \setminus (A \cap B \cap C)$
 - 2. $(A \cap (B \cup C)) \setminus (A \cap B \cap C)$
 - 3. $((A \cup B) \cap C) \setminus (A \cap B \cap C)$
 - 4. $(C \cap (A \cup B)) \setminus (A \cap B \cap C)$

Question ID :	630680944653
Option 1 ID :	6306803703409
Option 2 ID :	6306803703408
Option 3 ID :	6306803703407
Option 4 ID :	6306803703410

Q.15 What is the key difference between ultracentrifugation and standard centrifugation?

- Ans
- 1. The speed (RPM) at which the centrifuge operates
 - 2. The volume of the sample
 - 3. The temperature of the sample
 - 4. Type of sample

Question ID :	630680952329
Option 1 ID :	6306803733955
Option 2 ID :	6306803733956
Option 3 ID :	6306803733954
Option 4 ID :	6306803733953

Q.16 If $x < 0$, then which of the following represents an obtuse angle?

- Ans
- 1. $\operatorname{cosec}^{-1} x$
 - 2. $\cos^{-1} x$
 - 3. $\tan^{-1} x$
 - 4. $\sin^{-1} x$

Question ID :	630680949938
Option 1 ID :	6306803724416
Option 2 ID :	6306803724414
Option 3 ID :	6306803724415
Option 4 ID :	6306803724413

Q.17 In a perfectly inelastic collision, the final velocity of the combined mass is determined by the _____.

- Ans
- 1. conservation of kinetic energy
 - 2. sum of the initial velocities
 - 3. difference in masses
 - 4. conservation of momentum

Question ID : [630680946457](#)

Option 1 ID : [6306803710552](#)

Option 2 ID : [6306803710549](#)

Option 3 ID : [6306803710551](#)

Option 4 ID : [6306803710550](#)

Q.18 निम्नलिखित में से कौन-सा, पुष्पी पादपों में बहिःप्रजनन युक्ति (outbreeding device) का उदाहरण है?

- Ans
- 1. अनुन्मील्य परागण (Cleistogamy)
 - 2. स्वपरागण (Self-pollination)
 - 3. परिनिषेचन (Xenogamy)
 - 4. डियोसी (Dioecy)

Question ID : [630680952254](#)

Option 1 ID : [6306803733654](#)

Option 2 ID : [6306803733653](#)

Option 3 ID : [6306803733656](#)

Option 4 ID : [6306803733655](#)

Q.19 Two vectors of equal magnitude a form an angle θ with each other. What is the magnitude of their difference vector?

- Ans
- 1. $2a\sqrt{1 - \cos\theta}$
 - 2. $a\sqrt{2 + 2\cos\theta}$
 - 3. $2a\sqrt{1 + \cos\theta}$
 - 4. $a\sqrt{2 - 2\cos\theta}$

Question ID : [630680946421](#)

Option 1 ID : [6306803710407](#)

Option 2 ID : [6306803710406](#)

Option 3 ID : [6306803710408](#)

Option 4 ID : [6306803710405](#)

Q.20 Which of the following is most acidic?

- Ans
- 1. p-Nitrophenol
 - 2. Phenol
 - 3. m-Nitrophenol
 - 4. p-Chlorophenol

Question ID : [630680955392](#)

Option 1 ID : [6306803745575](#)

Option 2 ID : [6306803745574](#)

Option 3 ID : [6306803745573](#)

Option 4 ID : [6306803745572](#)

Section : Discipline3

Q.1	What happens during an isothermal compression of a gas?										
Ans	<input checked="" type="checkbox"/> 1. The internal energy of the gas remains unchanged. <input type="checkbox"/> 2. The volume of the gas increases. <input type="checkbox"/> 3. The temperature of the gas decreases. <input type="checkbox"/> 4. The pressure of the gas remains unchanged.										
<table border="1"> <tr><td>Question ID :</td><td>630680946545</td></tr> <tr><td>Option 1 ID :</td><td>6306803710899</td></tr> <tr><td>Option 2 ID :</td><td>6306803710897</td></tr> <tr><td>Option 3 ID :</td><td>6306803710898</td></tr> <tr><td>Option 4 ID :</td><td>6306803710900</td></tr> </table>		Question ID :	630680946545	Option 1 ID :	6306803710899	Option 2 ID :	6306803710897	Option 3 ID :	6306803710898	Option 4 ID :	6306803710900
Question ID :	630680946545										
Option 1 ID :	6306803710899										
Option 2 ID :	6306803710897										
Option 3 ID :	6306803710898										
Option 4 ID :	6306803710900										
Q.2	Which of the following factors determines the magnitude of the force on a current-carrying conductor of length in a magnetic field?										
Ans	<input type="checkbox"/> 1. Only the current in the conductor and the magnetic field strength <input type="checkbox"/> 2. Only the magnetic field strength and length of the conductor <input type="checkbox"/> 3. Only the current in the conductor and length of the conductor. <input checked="" type="checkbox"/> 4. The magnetic field strength, the current in the conductor, and the length of the conductor in the magnetic field										
<table border="1"> <tr><td>Question ID :</td><td>630680946732</td></tr> <tr><td>Option 1 ID :</td><td>6306803711642</td></tr> <tr><td>Option 2 ID :</td><td>6306803711640</td></tr> <tr><td>Option 3 ID :</td><td>6306803711641</td></tr> <tr><td>Option 4 ID :</td><td>6306803711643</td></tr> </table>		Question ID :	630680946732	Option 1 ID :	6306803711642	Option 2 ID :	6306803711640	Option 3 ID :	6306803711641	Option 4 ID :	6306803711643
Question ID :	630680946732										
Option 1 ID :	6306803711642										
Option 2 ID :	6306803711640										
Option 3 ID :	6306803711641										
Option 4 ID :	6306803711643										
Q.3	Two particles of masses m and $3m$ are located at coordinates $(0,0)$ and $(4,0)$, respectively. The x-coordinate of the centre of mass is _____.										
Ans	<input type="checkbox"/> 1. 1 <input type="checkbox"/> 2. 4 <input type="checkbox"/> 3. 2 <input checked="" type="checkbox"/> 4. 3										
<table border="1"> <tr><td>Question ID :</td><td>630680946452</td></tr> <tr><td>Option 1 ID :</td><td>6306803710529</td></tr> <tr><td>Option 2 ID :</td><td>6306803710532</td></tr> <tr><td>Option 3 ID :</td><td>6306803710530</td></tr> <tr><td>Option 4 ID :</td><td>6306803710531</td></tr> </table>		Question ID :	630680946452	Option 1 ID :	6306803710529	Option 2 ID :	6306803710532	Option 3 ID :	6306803710530	Option 4 ID :	6306803710531
Question ID :	630680946452										
Option 1 ID :	6306803710529										
Option 2 ID :	6306803710532										
Option 3 ID :	6306803710530										
Option 4 ID :	6306803710531										
Q.4	Which of the following describes the operon model of gene regulation in prokaryotes?										
Ans	<input type="checkbox"/> 1. Operons are regulated post-transcriptionally. <input checked="" type="checkbox"/> 2. The operon includes a promoter, operator and multiple structural genes. <input type="checkbox"/> 3. Operons are only found in eukaryotes. <input type="checkbox"/> 4. Each gene in the operon is transcribed individually.										
<table border="1"> <tr><td>Question ID :</td><td>630680946848</td></tr> <tr><td>Option 1 ID :</td><td>6306803712091</td></tr> <tr><td>Option 2 ID :</td><td>6306803712089</td></tr> <tr><td>Option 3 ID :</td><td>6306803712090</td></tr> <tr><td>Option 4 ID :</td><td>6306803712088</td></tr> </table>		Question ID :	630680946848	Option 1 ID :	6306803712091	Option 2 ID :	6306803712089	Option 3 ID :	6306803712090	Option 4 ID :	6306803712088
Question ID :	630680946848										
Option 1 ID :	6306803712091										
Option 2 ID :	6306803712089										
Option 3 ID :	6306803712090										
Option 4 ID :	6306803712088										

Q.5	If a gas is compressed isothermally, the work done on the gas is _____.										
Ans	<input checked="" type="checkbox"/> 1. negative <input checked="" type="checkbox"/> 2. zero <input checked="" type="checkbox"/> 3. positive <input checked="" type="checkbox"/> 4. cannot be determined without additional information										
<table border="1"> <tr><td>Question ID :</td><td>630680946557</td></tr> <tr><td>Option 1 ID :</td><td>6306803710947</td></tr> <tr><td>Option 2 ID :</td><td>6306803710945</td></tr> <tr><td>Option 3 ID :</td><td>6306803710946</td></tr> <tr><td>Option 4 ID :</td><td>6306803710948</td></tr> </table>		Question ID :	630680946557	Option 1 ID :	6306803710947	Option 2 ID :	6306803710945	Option 3 ID :	6306803710946	Option 4 ID :	6306803710948
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Option 1 ID :	6306803710947										
Option 2 ID :	6306803710945										
Option 3 ID :	6306803710946										
Option 4 ID :	6306803710948										

Q.6	During weeks 9 to 15 of foetal development, which of the following developments is primarily associated with this period?										
Ans	<input checked="" type="checkbox"/> 1. Maturation of the respiratory system <input checked="" type="checkbox"/> 2. Development of the nervous system <input checked="" type="checkbox"/> 3. Baby scalp hair pattern is started <input checked="" type="checkbox"/> 4. Formation of the placenta										
<table border="1"> <tr><td>Question ID :</td><td>630680946840</td></tr> <tr><td>Option 1 ID :</td><td>6306803712059</td></tr> <tr><td>Option 2 ID :</td><td>6306803712058</td></tr> <tr><td>Option 3 ID :</td><td>6306803712057</td></tr> <tr><td>Option 4 ID :</td><td>6306803712056</td></tr> </table>		Question ID :	630680946840	Option 1 ID :	6306803712059	Option 2 ID :	6306803712058	Option 3 ID :	6306803712057	Option 4 ID :	6306803712056
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Option 1 ID :	6306803712059										
Option 2 ID :	6306803712058										
Option 3 ID :	6306803712057										
Option 4 ID :	6306803712056										

Q.7	Let A, B and C be three matrices such that $C^T = AB^T$. Then which of the following is true?										
Ans	<input checked="" type="checkbox"/> 1. number of rows in C = number of columns in B <input checked="" type="checkbox"/> 2. number of columns in C = number of rows in A <input checked="" type="checkbox"/> 3. number of rows in C = number of columns in A <input checked="" type="checkbox"/> 4. number of columns in C = number of rows in B										
<table border="1"> <tr><td>Question ID :</td><td>630680949944</td></tr> <tr><td>Option 1 ID :</td><td>6306803724438</td></tr> <tr><td>Option 2 ID :</td><td>6306803724439</td></tr> <tr><td>Option 3 ID :</td><td>6306803724440</td></tr> <tr><td>Option 4 ID :</td><td>6306803724437</td></tr> </table>		Question ID :	630680949944	Option 1 ID :	6306803724438	Option 2 ID :	6306803724439	Option 3 ID :	6306803724440	Option 4 ID :	6306803724437
Question ID :	630680949944										
Option 1 ID :	6306803724438										
Option 2 ID :	6306803724439										
Option 3 ID :	6306803724440										
Option 4 ID :	6306803724437										

Q.8	A coil with a self-inductance of 4 H carries a current that decreases uniformly from 10 A to 2 A in 2 seconds. What is the induced EMF in the coil?										
Ans	<input checked="" type="checkbox"/> 1. 12 V <input checked="" type="checkbox"/> 2. 36 V <input checked="" type="checkbox"/> 3. 42 V <input checked="" type="checkbox"/> 4. 16 V										
<table border="1"> <tr><td>Question ID :</td><td>630680946742</td></tr> <tr><td>Option 1 ID :</td><td>6306803711681</td></tr> <tr><td>Option 2 ID :</td><td>6306803711680</td></tr> <tr><td>Option 3 ID :</td><td>6306803711683</td></tr> <tr><td>Option 4 ID :</td><td>6306803711682</td></tr> </table>		Question ID :	630680946742	Option 1 ID :	6306803711681	Option 2 ID :	6306803711680	Option 3 ID :	6306803711683	Option 4 ID :	6306803711682
Question ID :	630680946742										
Option 1 ID :	6306803711681										
Option 2 ID :	6306803711680										
Option 3 ID :	6306803711683										
Option 4 ID :	6306803711682										

Q.9	Which of the following is NOT a hydrated proton?
Ans	<input checked="" type="checkbox"/> 1. Alkaline water <input type="checkbox"/> 2. Aqueous hydrochloric acid <input type="checkbox"/> 3. Acidic water <input type="checkbox"/> 4. Hydronium ion

Question ID :	630680946198
Option 1 ID :	6306803709513
Option 2 ID :	6306803709516
Option 3 ID :	6306803709515
Option 4 ID :	6306803709514

Q.10	Which of the following is true?
Ans	<input type="checkbox"/> 1. $\cos\left(-\frac{227\pi}{4}\right) = \sin\left(\frac{113\pi}{4}\right)$ <input checked="" type="checkbox"/> 2. $\cos\left(\frac{227\pi}{4}\right) = \sin\left(-\frac{113\pi}{4}\right)$ <input type="checkbox"/> 3. $-\cos\left(\frac{227\pi}{4}\right) = \sin\left(-\frac{113\pi}{4}\right)$ <input type="checkbox"/> 4. $\cos\left(\frac{227\pi}{4}\right) = \sin\left(\frac{113\pi}{4}\right)$

Question ID :	630680944779
Option 1 ID :	6306803703908
Option 2 ID :	6306803703909
Option 3 ID :	6306803703910
Option 4 ID :	6306803703907

Q.11	A wave has an angular frequency of 50 rad/s and a wavelength of 5 metres. What is the speed of the wave?
Ans	<input type="checkbox"/> 1. $\frac{\pi}{100}$ m/s <input checked="" type="checkbox"/> 2. $\frac{125}{\pi}$ m/s <input type="checkbox"/> 3. $\frac{\pi}{250}$ m/s <input type="checkbox"/> 4. 25π m/s

Question ID :	630680946598
Option 1 ID :	6306803711106
Option 2 ID :	6306803711105
Option 3 ID :	6306803711107
Option 4 ID :	6306803711104

Q.12	Identify the process in which $\Delta V = \text{zero}$ from the options provided.
Ans	<input checked="" type="checkbox"/> 1. Isochoric process <input type="checkbox"/> 2. Adiabatic process <input type="checkbox"/> 3. Isothermal process <input type="checkbox"/> 4. Isobaric process

Question ID :	630680946461
Option 1 ID :	6306803710565
Option 2 ID :	6306803710568
Option 3 ID :	6306803710567
Option 4 ID :	6306803710566

Q. 13	Domain and range of the function $f(x) = \frac{1}{(\cos x + \sin x)^2}$ is _____.											
Ans	<p><input type="checkbox"/> 1. Domain of $f = \mathbb{R} \setminus \left\{ \frac{(4k+1)\pi}{4} : k \in \mathbb{Z} \right\}$, range of $f = [0, \infty)$.</p> <p><input checked="" type="checkbox"/> 2. Domain of $f = \mathbb{R} \setminus \left\{ \frac{(4k-1)\pi}{4} : k \in \mathbb{Z} \right\}$, range of $f = \left[\frac{1}{2}, \infty) \right)$.</p> <p><input type="checkbox"/> 3. Domain of $f = \mathbb{R} \setminus \left\{ \frac{(4k+1)\pi}{4} : k \in \mathbb{Z} \right\}$, range of $f = [1, \infty)$.</p> <p><input type="checkbox"/> 4. Domain of $f = \mathbb{R} \setminus \left\{ \frac{(4k-1)\pi}{4} : k \in \mathbb{Z} \right\}$, range of $f = (0, \infty)$.</p>	<table border="1"> <tr><td>Question ID :</td><td>630680944840</td></tr> <tr><td>Option 1 ID :</td><td>6306803704138</td></tr> <tr><td>Option 2 ID :</td><td>6306803704140</td></tr> <tr><td>Option 3 ID :</td><td>6306803704141</td></tr> <tr><td>Option 4 ID :</td><td>6306803704139</td></tr> </table>	Question ID :	630680944840	Option 1 ID :	6306803704138	Option 2 ID :	6306803704140	Option 3 ID :	6306803704141	Option 4 ID :	6306803704139
Question ID :	630680944840											
Option 1 ID :	6306803704138											
Option 2 ID :	6306803704140											
Option 3 ID :	6306803704141											
Option 4 ID :	6306803704139											
Q.14	What is the primary benefit of collecting commingled waste?											
Ans	<p><input type="checkbox"/> 1. Reduces overall waste volume</p> <p><input type="checkbox"/> 2. Facilitates better composting practices</p> <p><input checked="" type="checkbox"/> 3. Simplifies waste sorting for households</p> <p><input type="checkbox"/> 4. Decreases contamination in recycling streams</p>	<table border="1"> <tr><td>Question ID :</td><td>630680952436</td></tr> <tr><td>Option 1 ID :</td><td>6306803734378</td></tr> <tr><td>Option 2 ID :</td><td>6306803734380</td></tr> <tr><td>Option 3 ID :</td><td>6306803734377</td></tr> <tr><td>Option 4 ID :</td><td>6306803734379</td></tr> </table>	Question ID :	630680952436	Option 1 ID :	6306803734378	Option 2 ID :	6306803734380	Option 3 ID :	6306803734377	Option 4 ID :	6306803734379
Question ID :	630680952436											
Option 1 ID :	6306803734378											
Option 2 ID :	6306803734380											
Option 3 ID :	6306803734377											
Option 4 ID :	6306803734379											
Q. 15	If $\int \frac{3 + 4\sin x - 2 \tan x}{\cos^2 x} dx = A \tan x + B \sec x + C \tan^2 x + d$, then $A + B + C =$ _____.											
Ans	<p><input type="checkbox"/> 1. 3</p> <p><input checked="" type="checkbox"/> 2. 6</p> <p><input type="checkbox"/> 3. 5</p> <p><input type="checkbox"/> 4. 8</p>	<table border="1"> <tr><td>Question ID :</td><td>630680950037</td></tr> <tr><td>Option 1 ID :</td><td>6306803724812</td></tr> <tr><td>Option 2 ID :</td><td>6306803724811</td></tr> <tr><td>Option 3 ID :</td><td>6306803724809</td></tr> <tr><td>Option 4 ID :</td><td>6306803724810</td></tr> </table>	Question ID :	630680950037	Option 1 ID :	6306803724812	Option 2 ID :	6306803724811	Option 3 ID :	6306803724809	Option 4 ID :	6306803724810
Question ID :	630680950037											
Option 1 ID :	6306803724812											
Option 2 ID :	6306803724811											
Option 3 ID :	6306803724809											
Option 4 ID :	6306803724810											
Q.16	The most common reference electrode is _____.											
Ans	<p><input type="checkbox"/> 1. lead-lead sulphate electrode</p> <p><input checked="" type="checkbox"/> 2. calomel electrode</p> <p><input type="checkbox"/> 3. hydrogen electrode</p> <p><input type="checkbox"/> 4. silver-silver chloride electrode</p>	<table border="1"> <tr><td>Question ID :</td><td>630680955522</td></tr> <tr><td>Option 1 ID :</td><td>6306803746101</td></tr> <tr><td>Option 2 ID :</td><td>6306803746100</td></tr> <tr><td>Option 3 ID :</td><td>6306803746098</td></tr> <tr><td>Option 4 ID :</td><td>6306803746099</td></tr> </table>	Question ID :	630680955522	Option 1 ID :	6306803746101	Option 2 ID :	6306803746100	Option 3 ID :	6306803746098	Option 4 ID :	6306803746099
Question ID :	630680955522											
Option 1 ID :	6306803746101											
Option 2 ID :	6306803746100											
Option 3 ID :	6306803746098											
Option 4 ID :	6306803746099											

Q.17	Henderson-Hasselbalch equation explains the relationship between _____.										
Ans	<input checked="" type="checkbox"/> 1. pOH and logKa <input checked="" type="checkbox"/> 2. pH and pKa <input checked="" type="checkbox"/> 3. pH and pOH <input checked="" type="checkbox"/> 4. pOH and pKa										
<table border="1"> <tr><td>Question ID :</td><td>630680953680</td></tr> <tr><td>Option 1 ID :</td><td>6306803738926</td></tr> <tr><td>Option 2 ID :</td><td>6306803738927</td></tr> <tr><td>Option 3 ID :</td><td>6306803738925</td></tr> <tr><td>Option 4 ID :</td><td>6306803738928</td></tr> </table>		Question ID :	630680953680	Option 1 ID :	6306803738926	Option 2 ID :	6306803738927	Option 3 ID :	6306803738925	Option 4 ID :	6306803738928
Question ID :	630680953680										
Option 1 ID :	6306803738926										
Option 2 ID :	6306803738927										
Option 3 ID :	6306803738925										
Option 4 ID :	6306803738928										
Q.18	Which of the following heavy metals commonly found in electronic waste poses the greatest health risk due to its toxicity and persistence in the environment?										
Ans	<input checked="" type="checkbox"/> 1. Copper <input checked="" type="checkbox"/> 2. Aluminum <input checked="" type="checkbox"/> 3. Zinc <input checked="" type="checkbox"/> 4. Thallium										
<table border="1"> <tr><td>Question ID :</td><td>630680952425</td></tr> <tr><td>Option 1 ID :</td><td>6306803734338</td></tr> <tr><td>Option 2 ID :</td><td>6306803734340</td></tr> <tr><td>Option 3 ID :</td><td>6306803734337</td></tr> <tr><td>Option 4 ID :</td><td>6306803734339</td></tr> </table>		Question ID :	630680952425	Option 1 ID :	6306803734338	Option 2 ID :	6306803734340	Option 3 ID :	6306803734337	Option 4 ID :	6306803734339
Question ID :	630680952425										
Option 1 ID :	6306803734338										
Option 2 ID :	6306803734340										
Option 3 ID :	6306803734337										
Option 4 ID :	6306803734339										
Q.19	Which of the following elements was named as eka-silicon by Mendeleev during the classification of elements?										
Ans	<input checked="" type="checkbox"/> 1. Gallium <input checked="" type="checkbox"/> 2. Carbon <input checked="" type="checkbox"/> 3. Germanium <input checked="" type="checkbox"/> 4. Selenium										
<table border="1"> <tr><td>Question ID :</td><td>630680946057</td></tr> <tr><td>Option 1 ID :</td><td>6306803708966</td></tr> <tr><td>Option 2 ID :</td><td>6306803708969</td></tr> <tr><td>Option 3 ID :</td><td>6306803708967</td></tr> <tr><td>Option 4 ID :</td><td>6306803708968</td></tr> </table>		Question ID :	630680946057	Option 1 ID :	6306803708966	Option 2 ID :	6306803708969	Option 3 ID :	6306803708967	Option 4 ID :	6306803708968
Question ID :	630680946057										
Option 1 ID :	6306803708966										
Option 2 ID :	6306803708969										
Option 3 ID :	6306803708967										
Option 4 ID :	6306803708968										
Q.20	How many five-digit numbers, those are divisible by 4, can be formed using 1, 2, 3, . . . ,9 if repetition of digits is not allowed?										
Ans	<input checked="" type="checkbox"/> 1. 4200 <input checked="" type="checkbox"/> 2. 3780 <input checked="" type="checkbox"/> 3. 2100 <input checked="" type="checkbox"/> 4. 6840										
<table border="1"> <tr><td>Question ID :</td><td>630680944940</td></tr> <tr><td>Option 1 ID :</td><td>6306803704534</td></tr> <tr><td>Option 2 ID :</td><td>6306803704537</td></tr> <tr><td>Option 3 ID :</td><td>6306803704536</td></tr> <tr><td>Option 4 ID :</td><td>6306803704535</td></tr> </table>		Question ID :	630680944940	Option 1 ID :	6306803704534	Option 2 ID :	6306803704537	Option 3 ID :	6306803704536	Option 4 ID :	6306803704535
Question ID :	630680944940										
Option 1 ID :	6306803704534										
Option 2 ID :	6306803704537										
Option 3 ID :	6306803704536										
Option 4 ID :	6306803704535										

Section : Discipline4

Q.1 The length of a rectangle is decreasing at the rate of 7 cm/sec and the width is increasing at the rate of 5.25 cm/sec. When the length of the rectangle is 4 cm and width is 3 cm, then the area of the rectangle _____.

- Ans
- 1. decreases at the rate of 3 cm/sec
 - 2. decreases at the rate of 0.25 cm/sec
 - 3. increases at the rate of 3 cm/sec
 - 4. does not change with respect to time

Question ID :	630680947131
Option 1 ID :	6306803713224
Option 2 ID :	6306803713227
Option 3 ID :	6306803713225
Option 4 ID :	6306803713226

Q.2 Which of the following represents a redox reaction?

- Ans
- 1. $\text{CuSO}_4 + 2\text{H}_2\text{O} \rightarrow \text{Cu}(\text{OH})_2 + \text{H}_2\text{SO}_3$
 - 2. $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
 - 3. $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$
 - 4. $\text{BaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + 2\text{HCl}$

Question ID :	630680953817
Option 1 ID :	6306803739474
Option 2 ID :	6306803739475
Option 3 ID :	6306803739472
Option 4 ID :	6306803739473

Q.3 Molecular orbital theory (MOT) was previously called _____.

- Ans
- 1. Nernst theory
 - 2. VSEPER theory
 - 3. Hund-Mulliken theory
 - 4. Dalton theory

Question ID :	630680953668
Option 1 ID :	6306803738879
Option 2 ID :	6306803738878
Option 3 ID :	6306803738880
Option 4 ID :	6306803738877

Q.4 If $y = e^{\sin(\log_e x)}$, then $\left(\frac{dy}{dx}\right)_{x=e^\pi} =$ _____.

- Ans
- 1. $-e^{-\pi}$
 - 2. $-e^\pi$
 - 3. e^π
 - 4. $e^{-\pi}$

Question ID :	630680950007
Option 1 ID :	6306803724691
Option 2 ID :	6306803724692
Option 3 ID :	6306803724689
Option 4 ID :	6306803724690

Q.5	A 2 cm long wire carrying a current of 5 mA is placed perpendicular to a magnetic field. If the wire experiences a force of 10 N, what is the strength of the magnetic field?
Ans	<input checked="" type="checkbox"/> 1. 10^5 T <input type="checkbox"/> 2. 10^2 T <input type="checkbox"/> 3. 10^3 T <input type="checkbox"/> 4. 10^4 T

Question ID :	630680946741
Option 1 ID :	6306803711679
Option 2 ID :	6306803711676
Option 3 ID :	6306803711677
Option 4 ID :	6306803711678

Q.6	Which of the following is/are the most prevalent technology in water analysis?
Ans	<input type="checkbox"/> 1. TLC <input type="checkbox"/> 2. ELISA <input checked="" type="checkbox"/> 3. HPLC and GC <input type="checkbox"/> 4. Electrophoresis and TLC

Question ID :	630680952386
Option 1 ID :	6306803734182
Option 2 ID :	6306803734184
Option 3 ID :	6306803734181
Option 4 ID :	6306803734183

Q.7	Consider the experiment of selecting a number from the set of natural numbers. Three events A, B and C are defined as follows. A = Selection of a prime number. B = Selection of an odd number. Which of the options is true?
Ans	<input type="checkbox"/> 1. A and B are exhaustive events but not mutually exclusive. <input type="checkbox"/> 2. A and B are mutually exclusive events but not exhaustive. <input checked="" type="checkbox"/> 3. A and B are neither exclusive nor exhaustive events. <input type="checkbox"/> 4. A and B are both exclusive and exhaustive events.

Question ID :	630680948326
Option 1 ID :	6306803717996
Option 2 ID :	6306803717997
Option 3 ID :	6306803717998
Option 4 ID :	6306803717999

Q.8	The region which helps in increasing the transcription in Eukaryotic genes is called _____.
Ans	<input type="checkbox"/> 1. RNA Polymerase <input checked="" type="checkbox"/> 2. Enhancers <input type="checkbox"/> 3. Repressors <input type="checkbox"/> 4. Activators

Question ID :	630680946845
Option 1 ID :	6306803712078
Option 2 ID :	6306803712076
Option 3 ID :	6306803712077
Option 4 ID :	6306803712079

Q.9	Ether can be prepared by _____.
Ans	<input checked="" type="checkbox"/> 1. Dieckmann reaction <input checked="" type="checkbox"/> 2. S _N 2 reaction <input checked="" type="checkbox"/> 3. Fittig reaction <input checked="" type="checkbox"/> 4. Wurtz reaction

Question ID :	630680955424
Option 1 ID :	6306803745707
Option 2 ID :	6306803745705
Option 3 ID :	6306803745706
Option 4 ID :	6306803745704

Q.10	Which statement best describes the electrophoresis behaviour of polyelectrolytes?
Ans	<input checked="" type="checkbox"/> 1. Polyelectrolytes migrate towards the anode in an electric field due to their positive charge. <input checked="" type="checkbox"/> 2. Polyelectrolytes migrate towards the cathode in an electric field due to their negative charge. <input checked="" type="checkbox"/> 3. Polyelectrolytes migrate randomly in an electric field due to their charged and flexible nature. <input checked="" type="checkbox"/> 4. Polyelectrolytes do not migrate in an electric field due to their large molecular size.

Question ID :	630680952368
Option 1 ID :	6306803734109
Option 2 ID :	6306803734110
Option 3 ID :	6306803734112
Option 4 ID :	6306803734111

Q.11	What is the relationship between current (I), charge carrier density (n), cross-sectional area (A), electron charge (e), and drift velocity (v _d)?
Ans	<input checked="" type="checkbox"/> 1. $I = \frac{neA}{v_d}$ <input checked="" type="checkbox"/> 2. $I = \frac{nev_d}{A}$ <input checked="" type="checkbox"/> 3. $I = \frac{nAv_d}{e}$ <input checked="" type="checkbox"/> 4. $I = nev_dA$

Question ID :	630680946719
Option 1 ID :	6306803711590
Option 2 ID :	6306803711589
Option 3 ID :	6306803711591
Option 4 ID :	6306803711588

Q.12	Which of the following real-world phenomena can be modeled using a periodic function?
Ans	<input checked="" type="checkbox"/> 1. Temperature changes over a day <input checked="" type="checkbox"/> 2. Population growth <input checked="" type="checkbox"/> 3. Radioactive decay <input checked="" type="checkbox"/> 4. Compound interest

Question ID :	630680946582
Option 1 ID :	6306803711041
Option 2 ID :	6306803711040
Option 3 ID :	6306803711042
Option 4 ID :	6306803711043

Q.13	Three cells, each with an EMF of 1.8V and internal resistance of 0.6Ω , are connected in series. If this combination is connected to an external load of 3Ω resistance, what is the current flowing through the external circuit?
Ans	<input type="checkbox"/> 1. 0.625 A <input type="checkbox"/> 2. 0.575 A <input type="checkbox"/> 3. 1.750 A <input checked="" type="checkbox"/> 4. 1.125 A

Question ID :	630680946726
Option 1 ID :	6306803711616
Option 2 ID :	6306803711619
Option 3 ID :	6306803711618
Option 4 ID :	6306803711617

Q.14	When pH is equal to pKa, the acid will be _____.
Ans	<input type="checkbox"/> 1. dissociated to a small extent <input checked="" type="checkbox"/> 2. half dissociated <input type="checkbox"/> 3. fully dissociated <input type="checkbox"/> 4. not dissociated at all

Question ID :	630680953687
Option 1 ID :	6306803738955
Option 2 ID :	6306803738956
Option 3 ID :	6306803738953
Option 4 ID :	6306803738954

Q.15	Two waves traveling along a string are given by $y_1 = A \sin(kx - \omega t)$ and $y_2 = A \sin(kx + \omega t)$. The resultant wave is _____.
Ans	<input type="checkbox"/> 1. A traveling wave <input type="checkbox"/> 2. A beat wave <input type="checkbox"/> 3. An amplified wave <input checked="" type="checkbox"/> 4. A standing wave

Question ID :	630680946603
Option 1 ID :	6306803711125
Option 2 ID :	6306803711126
Option 3 ID :	6306803711127
Option 4 ID :	6306803711124

Q.16	Which of the following pairs are more stable?
Ans	<input type="checkbox"/> 1. $\text{Er}^{+2}, \text{Tm}^{+2}$ <input checked="" type="checkbox"/> 2. $\text{Eu}^{+2}, \text{Yb}^{+2}$ <input type="checkbox"/> 3. $\text{Ce}^{+2}, \text{Pr}^{+2}$ <input type="checkbox"/> 4. $\text{Gd}^{+2}, \text{La}^{+2}$

Question ID :	630680946407
Option 1 ID :	6306803710352
Option 2 ID :	6306803710350
Option 3 ID :	6306803710349
Option 4 ID :	6306803710351

Q 17	Let relation R be defined as $R = \{(x, y) : x - y \geq 1, x, y \in \mathbb{R}\}$ on the set of real numbers \mathbb{R} . Then R is:										
A n s	<input checked="" type="checkbox"/> 1. symmetric but not reflexive <input type="checkbox"/> 2. both reflexive and symmetric <input type="checkbox"/> 3. neither reflexive nor symmetric <input type="checkbox"/> 4. reflexive but not symmetric										
<table border="1"> <tr><td>Question ID :</td><td>630680948545</td></tr> <tr><td>Option 1 ID :</td><td>6306803718952</td></tr> <tr><td>Option 2 ID :</td><td>6306803718950</td></tr> <tr><td>Option 3 ID :</td><td>6306803718953</td></tr> <tr><td>Option 4 ID :</td><td>6306803718951</td></tr> </table>		Question ID :	630680948545	Option 1 ID :	6306803718952	Option 2 ID :	6306803718950	Option 3 ID :	6306803718953	Option 4 ID :	6306803718951
Question ID :	630680948545										
Option 1 ID :	6306803718952										
Option 2 ID :	6306803718950										
Option 3 ID :	6306803718953										
Option 4 ID :	6306803718951										
Q.18	A block is pulled horizontally along a smooth surface by a rope of mass 1 kg. The force applied at the free end of the rope is 15 N, and the block exerts a force of 13.5 N on the rope. Find the mass m of the block.										
Ans	<input type="checkbox"/> 1. 7.5 kg <input type="checkbox"/> 2. 6.0 kg <input type="checkbox"/> 3. 1.5 kg <input checked="" type="checkbox"/> 4. 9.0 kg										
<table border="1"> <tr><td>Question ID :</td><td>630680946431</td></tr> <tr><td>Option 1 ID :</td><td>6306803710447</td></tr> <tr><td>Option 2 ID :</td><td>6306803710446</td></tr> <tr><td>Option 3 ID :</td><td>6306803710445</td></tr> <tr><td>Option 4 ID :</td><td>6306803710448</td></tr> </table>		Question ID :	630680946431	Option 1 ID :	6306803710447	Option 2 ID :	6306803710446	Option 3 ID :	6306803710445	Option 4 ID :	6306803710448
Question ID :	630680946431										
Option 1 ID :	6306803710447										
Option 2 ID :	6306803710446										
Option 3 ID :	6306803710445										
Option 4 ID :	6306803710448										
Q.19	If $e^y = x + \sqrt{x^2 + 1}$, then $\left(\frac{dy}{dx}\right)_{x=1} =$ _____.										
Ans	<input type="checkbox"/> 1. $\frac{1}{2}$ <input type="checkbox"/> 2. $\sqrt{2}$ <input checked="" type="checkbox"/> 3. $\frac{1}{\sqrt{2}}$ <input type="checkbox"/> 4. $\frac{1}{2\sqrt{2}}$										
<table border="1"> <tr><td>Question ID :</td><td>630680947194</td></tr> <tr><td>Option 1 ID :</td><td>6306803713473</td></tr> <tr><td>Option 2 ID :</td><td>6306803713472</td></tr> <tr><td>Option 3 ID :</td><td>6306803713474</td></tr> <tr><td>Option 4 ID :</td><td>6306803713475</td></tr> </table>		Question ID :	630680947194	Option 1 ID :	6306803713473	Option 2 ID :	6306803713472	Option 3 ID :	6306803713474	Option 4 ID :	6306803713475
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Option 1 ID :	6306803713473										
Option 2 ID :	6306803713472										
Option 3 ID :	6306803713474										
Option 4 ID :	6306803713475										
Q.20	What happens to free charges in a conductor when an external electric field is applied?										
Ans	<input checked="" type="checkbox"/> 1. They move to create a current <input type="checkbox"/> 2. They move randomly <input type="checkbox"/> 3. They remain stationary <input type="checkbox"/> 4. They align with the field but don't move										
<table border="1"> <tr><td>Question ID :</td><td>630680946710</td></tr> <tr><td>Option 1 ID :</td><td>6306803711555</td></tr> <tr><td>Option 2 ID :</td><td>6306803711553</td></tr> <tr><td>Option 3 ID :</td><td>6306803711552</td></tr> <tr><td>Option 4 ID :</td><td>6306803711554</td></tr> </table>		Question ID :	630680946710	Option 1 ID :	6306803711555	Option 2 ID :	6306803711553	Option 3 ID :	6306803711552	Option 4 ID :	6306803711554
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Option 1 ID :	6306803711555										
Option 2 ID :	6306803711553										
Option 3 ID :	6306803711552										
Option 4 ID :	6306803711554										

Section : Discipline5

Q.1	The mole concept is linked to the scientist _____.
Ans	<p><input type="checkbox"/> 1. Dmitri Mendeleev</p> <p><input checked="" type="checkbox"/> 2. Amedeo Carlo Avogadro</p> <p><input type="checkbox"/> 3. John Dalton</p> <p><input type="checkbox"/> 4. Isaac Newton</p>

Question ID :	630680946077
Option 1 ID :	6306803709043
Option 2 ID :	6306803709045
Option 3 ID :	6306803709044
Option 4 ID :	6306803709042

Q.2	Which of the following characteristics best describes organisms that exhibit obligate asexual reproduction?
Ans	<p><input type="checkbox"/> 1. They are capable of switching between sexual and asexual reproduction depending on environmental conditions.</p> <p><input type="checkbox"/> 2. They reproduce exclusively through sexual reproduction.</p> <p><input checked="" type="checkbox"/> 3. They reproduce exclusively through asexual reproduction and lack the ability to reproduce sexually.</p> <p><input type="checkbox"/> 4. They produce offspring through both sexual and asexual means.</p>

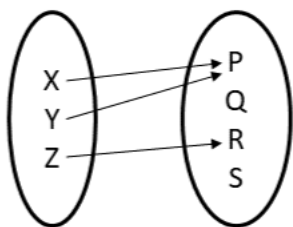
Question ID :	630680946790
Option 1 ID :	6306803711870
Option 2 ID :	6306803711869
Option 3 ID :	6306803711871
Option 4 ID :	6306803711868

Q.3	Two dipoles, each with dipole moment p, are placed parallel to each other with their centres separated by a distance r in free space. What is the force F between them if r > 2a (where 2a is the length of each dipole)?
Ans	<p><input type="checkbox"/> 1. $\frac{p^2}{4\pi\epsilon_0 r^4}$</p> <p><input checked="" type="checkbox"/> 2. $\frac{3p^2}{4\pi\epsilon_0 r^4}$</p> <p><input type="checkbox"/> 3. $\frac{p^2}{4\pi\epsilon_0 r^3}$</p> <p><input type="checkbox"/> 4. $\frac{2p^2}{4\pi\epsilon_0 r^3}$</p>

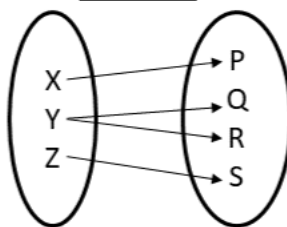
Question ID :	630680946699
Option 1 ID :	6306803711511
Option 2 ID :	6306803711509
Option 3 ID :	6306803711510
Option 4 ID :	6306803711508

Q Let $A = \{x, y, z\}$ and $B = \{p, q, r, s\}$. Which of the following pictures DOES NOT represent functions $f: A \rightarrow B$?

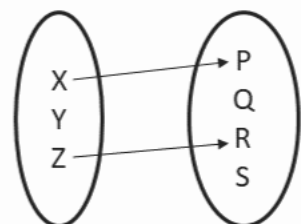
Picture 1



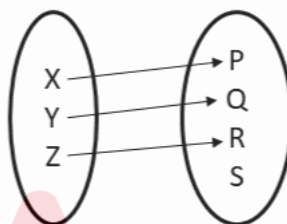
Picture 2



Picture 3



Picture 4



Ans 1. Picture 1 and picture 4

2. Only picture 3

3. Picture 2 and picture 3

4. Picture 3 and picture 4

Question ID : [630680944698](#)

Option 1 ID : [6306803703587](#)

Option 2 ID : [6306803703588](#)

Option 3 ID : [6306803703589](#)

Option 4 ID : [6306803703590](#)

Q.5 Which of the following organic reactions is an example of redox reaction?

Ans 1. Diels – Alder reaction

2. Aldol condensation

3. Dieckmann condensation

4. Cannizaro reaction

Question ID : [630680953928](#)

Option 1 ID : [6306803739920](#)

Option 2 ID : [6306803739917](#)

Option 3 ID : [6306803739919](#)

Option 4 ID : [6306803739918](#)

Q.6 Let $A = \begin{bmatrix} 1 & -1 & x \end{bmatrix}$, $B = \begin{bmatrix} 3 & 2 \\ 0 & 4 \\ 1 & -1 \end{bmatrix}$ and $C = \begin{bmatrix} 2 \\ x \end{bmatrix}$. If $ABC = 0$, then $x =$ _____.

- Ans
- 1. ± 2
 - 2. $\pm\sqrt{3}$
 - 3. $\pm\sqrt{2}$
 - 4. $\pm\sqrt{6}$

Question ID :	630680949953
Option 1 ID :	6306803724475
Option 2 ID :	6306803724474
Option 3 ID :	6306803724473
Option 4 ID :	6306803724476

Q.7 The mass of the Moon is 7.35×10^{22} kg, and the mass of the Earth is 6×10^{24} kg. The average distance between the Earth and the Moon is 4×10^8 m. Calculate the gravitational force between the Earth and the Moon. ($G = 6.7 \times 10^{-11}$ N-m²/kg²)

- Ans
- 1. 4.25×10^{20} N
 - 2. 2.35×10^{19} N
 - 3. 3.85×10^{17} N
 - 4. 1.85×10^{20} N

Question ID :	630680946475
Option 1 ID :	6306803710624
Option 2 ID :	6306803710623
Option 3 ID :	6306803710622
Option 4 ID :	6306803710621

Q.8 Let \mathbb{Z} be the set of integers and for $x, y \in \mathbb{Z}$, $x R y$ iff $x = ky$ for some $k \in \mathbb{Z}$. Then the relation R on \mathbb{Z} is:

- Ans
- 1. an equivalence relation
 - 2. reflexive and transitive but not equivalence
 - 3. symmetric and transitive but not equivalence
 - 4. reflexive and symmetric but not equivalence

Question ID :	630680948512
Option 1 ID :	6306803718822
Option 2 ID :	6306803718824
Option 3 ID :	6306803718825
Option 4 ID :	6306803718823

Q.9	According to Lynn Margulis, which of the following is considered as 'Neoclassical systematics' at kingdom scale?
Ans	<input checked="" type="checkbox"/> 1. Two Kingdom Classification <input checked="" type="checkbox"/> 2. Four Kingdom Classification <input checked="" type="checkbox"/> 3. Five Kingdom Classification <input checked="" type="checkbox"/> 4. Three Kingdom Classification

Question ID :	630680946850
Option 1 ID :	6306803712099
Option 2 ID :	6306803712096
Option 3 ID :	6306803712097
Option 4 ID :	6306803712098

Q.10	What is the primary reason for using significant figures in reporting measurements?
Ans	<input checked="" type="checkbox"/> 1. To indicate the precision of the measurement <input checked="" type="checkbox"/> 2. To minimise the amount of data to be analysed <input checked="" type="checkbox"/> 3. To make the numbers easier to read <input checked="" type="checkbox"/> 4. To standardise the reporting format

Question ID :	630680946331
Option 1 ID :	6306803710046
Option 2 ID :	6306803710048
Option 3 ID :	6306803710045
Option 4 ID :	6306803710047

Q.11	Let A and B be two events such that $P(A) = \frac{7}{15}$, $P(A \cup B) = \frac{4}{5}$ and $P(A \cap B) = \frac{1}{3}$. The probability of the event B but not A is _____.
Ans	<input checked="" type="checkbox"/> 1. 1/3 <input checked="" type="checkbox"/> 2. 3/5 <input checked="" type="checkbox"/> 3. 2/15 <input checked="" type="checkbox"/> 4. 8/15

Question ID :	630680948218
Option 1 ID :	6306803717565
Option 2 ID :	6306803717566
Option 3 ID :	6306803717564
Option 4 ID :	6306803717567

Q.12	If $\begin{vmatrix} 2^2 - k & 3^2 & 2^2 + 2 - k \\ 3^2 - k & 4^2 & 3^2 + 3 - k \\ 4^2 - k & 5^2 & 4^2 + 4 - k \end{vmatrix} = 0$, then the value of k = _____.
Ans	<input checked="" type="checkbox"/> 1. -1 <input checked="" type="checkbox"/> 2. 0 <input checked="" type="checkbox"/> 3. 2 <input checked="" type="checkbox"/> 4. 1

Question ID :	630680949964
Option 1 ID :	6306803724519
Option 2 ID :	6306803724520
Option 3 ID :	6306803724517
Option 4 ID :	6306803724518

Q.13	Which of the following is a characteristic feature of amphibians?										
Ans	<input checked="" type="checkbox"/> 1. Dry skin covered with scales <input checked="" type="checkbox"/> 2. Two pairs of legs <input checked="" type="checkbox"/> 3. Ectothermic <input checked="" type="checkbox"/> 4. Laying eggs with hard shells										
<table border="1"> <tr><td>Question ID :</td><td>630680952278</td></tr> <tr><td>Option 1 ID :</td><td>6306803733750</td></tr> <tr><td>Option 2 ID :</td><td>6306803733752</td></tr> <tr><td>Option 3 ID :</td><td>6306803733749</td></tr> <tr><td>Option 4 ID :</td><td>6306803733751</td></tr> </table>		Question ID :	630680952278	Option 1 ID :	6306803733750	Option 2 ID :	6306803733752	Option 3 ID :	6306803733749	Option 4 ID :	6306803733751
Question ID :	630680952278										
Option 1 ID :	6306803733750										
Option 2 ID :	6306803733752										
Option 3 ID :	6306803733749										
Option 4 ID :	6306803733751										
Q.14	If two objects are charged with the same amount of charge but one has a higher capacitance, what can be said about their potentials?										
Ans	<input checked="" type="checkbox"/> 1. Potentials cannot be compared in this context. <input checked="" type="checkbox"/> 2. The object with lower capacitance will have higher potential. <input checked="" type="checkbox"/> 3. The object with higher capacitance will have higher potential. <input checked="" type="checkbox"/> 4. Both objects will have the same potential.										
<table border="1"> <tr><td>Question ID :</td><td>630680946617</td></tr> <tr><td>Option 1 ID :</td><td>6306803711183</td></tr> <tr><td>Option 2 ID :</td><td>6306803711181</td></tr> <tr><td>Option 3 ID :</td><td>6306803711180</td></tr> <tr><td>Option 4 ID :</td><td>6306803711182</td></tr> </table>		Question ID :	630680946617	Option 1 ID :	6306803711183	Option 2 ID :	6306803711181	Option 3 ID :	6306803711180	Option 4 ID :	6306803711182
Question ID :	630680946617										
Option 1 ID :	6306803711183										
Option 2 ID :	6306803711181										
Option 3 ID :	6306803711180										
Option 4 ID :	6306803711182										
Q.15	Which point on the stress-strain curve represents the maximum stress a material can withstand before fracture?										
Ans	<input checked="" type="checkbox"/> 1. Yield point <input checked="" type="checkbox"/> 2. Breaking point <input checked="" type="checkbox"/> 3. Elastic limit <input checked="" type="checkbox"/> 4. Ultimate strength										
<table border="1"> <tr><td>Question ID :</td><td>630680946481</td></tr> <tr><td>Option 1 ID :</td><td>6306803710645</td></tr> <tr><td>Option 2 ID :</td><td>6306803710648</td></tr> <tr><td>Option 3 ID :</td><td>6306803710646</td></tr> <tr><td>Option 4 ID :</td><td>6306803710647</td></tr> </table>		Question ID :	630680946481	Option 1 ID :	6306803710645	Option 2 ID :	6306803710648	Option 3 ID :	6306803710646	Option 4 ID :	6306803710647
Question ID :	630680946481										
Option 1 ID :	6306803710645										
Option 2 ID :	6306803710648										
Option 3 ID :	6306803710646										
Option 4 ID :	6306803710647										
Q.16	Which of the following can be performed in order to detect cervical cancer?										
Ans	<input checked="" type="checkbox"/> 1. PID- test <input checked="" type="checkbox"/> 2. PAP- test <input checked="" type="checkbox"/> 3. Using antibiotics <input checked="" type="checkbox"/> 4. X-ray scan										
<table border="1"> <tr><td>Question ID :</td><td>630680946776</td></tr> <tr><td>Option 1 ID :</td><td>6306803711818</td></tr> <tr><td>Option 2 ID :</td><td>6306803711817</td></tr> <tr><td>Option 3 ID :</td><td>6306803711819</td></tr> <tr><td>Option 4 ID :</td><td>6306803711816</td></tr> </table>		Question ID :	630680946776	Option 1 ID :	6306803711818	Option 2 ID :	6306803711817	Option 3 ID :	6306803711819	Option 4 ID :	6306803711816
Question ID :	630680946776										
Option 1 ID :	6306803711818										
Option 2 ID :	6306803711817										
Option 3 ID :	6306803711819										
Option 4 ID :	6306803711816										

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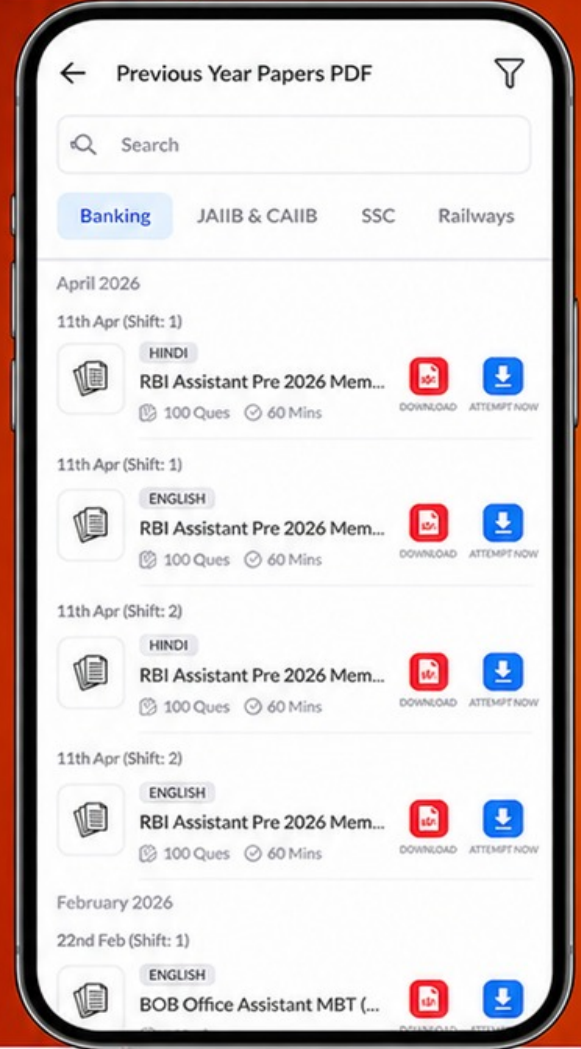
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Q.17 According to Nernst theory, the tendency of metallic elements and hydrogen to pass into solution in the form of positive ions is known as _____.

Ans 1. conducting property
 2. electrolytic solution pressure
 3. valence band
 4. surface tension

Question ID : [630680955454](#)
 Option 1 ID : [6306803745822](#)
 Option 2 ID : [6306803745820](#)
 Option 3 ID : [6306803745823](#)
 Option 4 ID : [6306803745821](#)

Q.18 m numbers have been inserted between -1 and 42 in such a way that the resulting sequence is in arithmetic progression. If the ratio of the 3rd and 11th inserted numbers is $\frac{1}{4}$, then the value of m is _____.

Ans 1. 24
 2. 17
 3. 13
 4. 11

Question ID : [630680947108](#)
 Option 1 ID : [6306803713134](#)
 Option 2 ID : [6306803713132](#)
 Option 3 ID : [6306803713135](#)
 Option 4 ID : [6306803713133](#)

Q.19 What is an attribute in biostatistics?

Ans 1. A dependent variable
 2. A qualitative characteristic
 3. An independent variable
 4. A numerical measurement

Question ID : [630680952458](#)
 Option 1 ID : [6306803734467](#)
 Option 2 ID : [6306803734466](#)
 Option 3 ID : [6306803734468](#)
 Option 4 ID : [6306803734465](#)

Q.20 Half equation method is used to _____.

Ans 1. calculate the oxidation number
 2. calculate EAN
 3. balance the redox reaction
 4. balance the normal reaction

Question ID : [630680953746](#)
 Option 1 ID : [6306803739194](#)
 Option 2 ID : [6306803739196](#)
 Option 3 ID : [6306803739195](#)
 Option 4 ID : [6306803739193](#)