

STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff

SOLVED PAPER

(8th October 2021: Shift-1)

Time Allotted- 100 Minutes

Max marks- 100

Important Instructions:-

⇒ This paper contains 100 questions which are divided into 4 sections and each section contains 25 questions.

- ✓ General English
- ✓ General Intelligence & Reasoning
- ✓ Numerical Aptitude
- ✓ General Awareness

⇒ There will be 1 mark for each correct answer and also there will be a negative marking of 0.25 for each wrong answer.

⇒ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General English

1. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required.'
The sound of thunder was followed to a heavy downpour.
1. no substitution required 3. follows by
2. followed of 4. followed by
2. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Both of us going out for lunch yesterday.
1. going off 3. go out
2. went out 4. no substitution required
3. Select the most appropriate word for the given group of words.
Something which brings bad luck
1. Wicked 3. Jinxed
2. Devilish 4. Monstrous
4. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.
Many people from this village have migrated for searching of work.
1. No error 3. for searching of work
2. Many people from 4. this village have migrated
5. Select the INCORRECTLY spelt word.
1. Please 2. Pearl 3. Peasent 4. Plenty
6. Select the most appropriate word for the given group of words.
Animals and plants which live in water
1. Amphibian 2. Aquatic 3. Terrestrial 4. Aerial
7. Select the most appropriate synonym of the given word.
PLENTIFUL
1. Meagre 2. Ample 3. Charming 4. Beautiful
8. Select the INCORRECTLY spelt word.
1. Delicious 3. Delete
2. Delicate 4. Delightfull
9. Select the most appropriate synonym of the given word.
ROYAL
1. Lowly 2. Minor 3. Kingly 4. Poorly
10. Select the most appropriate option to substitute the underlined segment in the given sentence.
I don't think we can talk to him at all. He wasn't listening.
1. didn't listen 3. hadn't listened
2. doesn't listen 4. will not listening
11. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.
His injury does not seems to affect him much.
1. to affect him much 3. His injury
2. does not seems 4. No error
12. Identify the segment that contains a grammatical error. If there is no error, select 'no error'.
Life without laughter would be a dull affair.
1. a dull affair 3. no error
2. life without laughter 4. would be
13. Select the most appropriate option to fill in the blank.
She went in. I was just going to call her when she _____ again.
1. occurred 2. appeared 3. cropped 4. happened
14. Select the most appropriate option to fill in the blank.
_____ hard she tried, Amayra could not memorise the poem.
1. because 2. though 3. however 4. while
15. Select the most appropriate ANTONYM of the given word.
FAKE
1. false 2. bogus 3. genuine 4. artificial
16. Select the most appropriate option to fill in the blank.
The terrorists were armed _____ machine guns.
1. by 2. of 3. with 4. for
17. Select the most appropriate ANTONYM of the given word.
MISERABLE
1. tragic 2. cheerful 3. nervous 4. sad
18. Select the most appropriate meaning of the given idiom.
To be off your food
1. To have no food 3. To give food to others
2. To help someone 4. To have no appetite
19. Select the most appropriate meaning of the given idiom.
To go bananas
1. To become nervous
2. To feel very hungry
3. To become very excited or angry
4. To keep eating bananas

20. Select the most appropriate option to fill in the blank.
The brave soldiers _____ the position they had lost.
1. caught 2. detained 3. invaded 4. captured

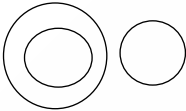
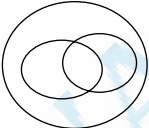
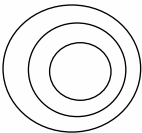

Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

My first voyage had been very profitable. I was again a (1) _____ man. I did not lack for luxury or entertainment. (2) _____, my friend, I could not rest for long. I (3) _____ the salt air and the thrill of travel and adventure. Soon I (4) _____ by the will of Allah back to the seaport at Basra, (5) _____ I found a newly-made ship with fine sails and the best equipment.





21. Select the most appropriate option to fill in blank no. 1.
1. wealthy 2. dull 3. poor 4. healthy
22. Select the most appropriate option to fill in blank no. 2.
1. And 2. Since 3. But 4. So
23. Select the most appropriate option to fill in blank no. 3.
1. am tasting 3. had tasted
2. have tasted 4. taste
24. Select the most appropriate option to fill in blank no. 4.
1. am pulled 3. was pulled
2. was pulling 4. had pulled
25. Select the most appropriate option to fill in blank no. 5.
1. where 2. wherever 3. while 4. when

General Intelligence and Reasoning

26. Seven persons, A, B, C, D, E, F and G, are sitting along a round table facing outward. C is sitting 2nd to the left of A but to the immediate right of D. B is 3rd to the right of A while G and E are sitting between them. What is the sitting location of F?
1. Between C and D 3. Right of C
2. Right of A 4. Left of D
27. Select the Venn diagram that best illustrates the relationship among the following classes.
Mothers, Women, Sisters
1.  3. 
2.  4. 
28. If 'INHABIT' is coded as '106' and 'JUNCTURE' is coded as '99', then how will 'KEYSTONE' be coded?
1. 153 2. 135 3. 154 4. 145
29. 'Golf' is related to 'Course' in the same way as 'Boxing' is related to '_____'.
1. Track 2. Court 3. Field 4. Ring
30. Select the option in which the number-pair shares the same relationship as that shared by the numbers of the following number-pair.
84 : 21
1. 60 : 12 2. 54 : 27 3. 65 : 65 4. 72 : 12
31. Which letter-cluster will replace the question mark (?) in the following letter-cluster series?
SWA, CGK, MQU, ?
1. XAE 2. WZC 3. VZD 4. WAE

32. Select the option figure that will replace question mark (?) in the following series.



1.  2. 
3.  4. 

33. Select the option in which the numbers are related in the same way as are the numbers of the following set.
(8, 18, 32)
1. (46, 68, 102) 3. (50, 72, 98)
2. (35, 52, 80) 4. (52, 78, 128)
34. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
JUDICIAL : LJAUIDCI :: OUTWARDS : ?
1. SDUORAWT 3. SODURTAW
2. UOSDWTRA 4. UOWTRASD
35. Which two signs and two digits can be interchanged so as to balance the given equation?
 $75 \div 15 - 18 \times 12 + 17 = 79$
1. + and \times ; 5 and 8 3. \times and $-$; 2 and 5
2. $-$ and \times ; 7 and 5 4. $-$ and \div ; 2 and 5
36. Which number will replace the question mark (?) in the following number series?
6, 15, 42, ?, 366, 1095
1. 125 2. 123 3. 129 4. 126
37. In a certain code language, if BUBBLE is written as FQFXPA, then how will FALCON be written in the same code language?
1. JEPGSR 2. BEHGKR 3. BWHYKJ 4. JWPYSJ
38. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some Plates are Bowls.

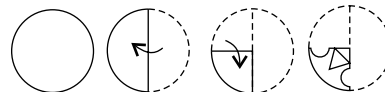
Some Bowls are Cups.





Conclusions:

I. Some Plates are Cups.

II. Some Bowls are Plates.

1. Both conclusions I and II follow.
2. Neither conclusion I nor II follows.
3. Only conclusion I follows.
4. Only conclusion II follows.
39. A paper is folded and cut as shown in the following figures. How will it appear when unfolded?



1.  3. 
2.  4. 

40. Which two signs can be interchanged so as to balance the given equation?

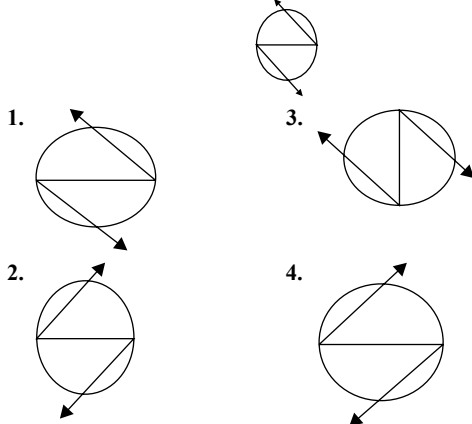
$$8 - 13 + 32 \div 8 \times 17 = 91$$

1. + and \times 2. - and \times 3. \div and \times 4. + and -

41. If in a coding system, HECTARE is coded as 8532195 and MONARCH is coded as 4651938, then how will OPINION be coded in the same coding system?

1. 6795965 2. 4735345 3. 7795975 4. 6785865

42. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



43. A sales representative plans to visit each of six stores U, V, W, X, Y and Z exactly once during the course of one day. He is setting up his schedule for the day in accordance with the following conditions:

- (i) He must visit U before V and Z.
- (ii) He must visit V before Y.
- (iii) The third store he visits must be X.

The sales representative could visit any of the following companies immediately after X, except:

1. W 2. V 3. Y 4. U

44. 'Doe' is related to 'Stag' in the same way 'Bee' is related to _____.

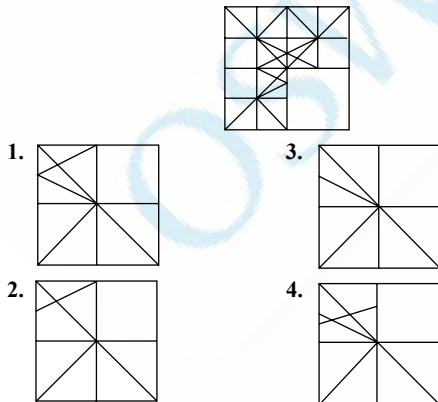
1. Gander 2. Foal 3. Drake 4. Drone

45. Which number will replace the question mark (?) in the following number series?

12, 18, 21, 27, 30, ?

1. 33 2. 39 3. 34 4. 36

46. Identify the option figure that when placed in the blank space completes the pattern in the given question figure.



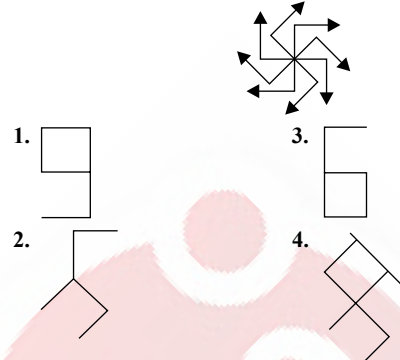
47. Five friends are sitting on a bench facing North and South alternately. R is sitting at the left corner and facing North, and T is second to the right of R. If P is third to the left of Q, then what is the sitting position of S?

- 1. Facing South and right of T
- 2. Facing North and left of Q
- 3. Facing North and right of T
- 4. Facing South and left of P

48. In a certain code language, if GLAZED is written as EDZGL, then how will DAYOUT be written in the same code language?

- 1. UTYODA 3. TUOYAD
- 2. UTDAYO 4. YADTUO

49. Identify the option figure which is embedded in the following figure (rotation is NOT allowed).



50. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

- Some Rackets are Bats.
- All Bats are Sticks.

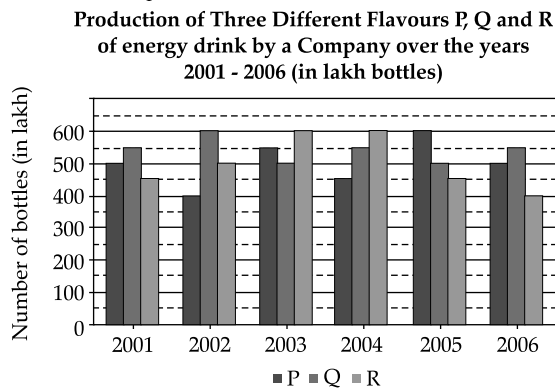
Conclusions:

- I. All Rackets are Sticks.
 - II. Some Rackets are not Sticks.
 - III. Some Sticks are Rackets.
- 1. Both conclusions I and III follow.
 - 2. Only conclusion II follows.
 - 3. Only conclusion III follows.
 - 4. Only conclusion I follows.

Numerical Aptitude

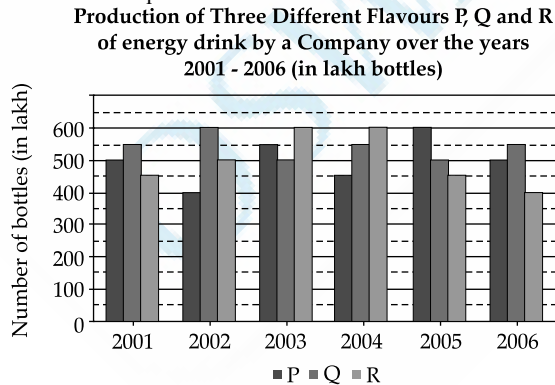
51. 8 women and 8 girls can finish a piece of work in 6 days, whereas 4 women and 10 girls can finish it in 8 days. In how many days will one girl finish it working alone?
1. 120 2. 144 3. 75 4. 84
52. The length (in m, correct to one decimal place) of the longest pole that can be fitted in room of dimensions 12 m \times 6 m \times 4 m is:
1. 7.2 2. 14.0 3. 13.4 4. 12.6
53. A fort had provision for 400 men for 60 days. After 35 days, 100 more men came. For how many days would be provisions last, assuming all men consumed food equally?
1. 30 2. 35 3. 20 4. 28
54. 900g Pudding contains three ingredients flour, sugar and butter. It has three times more sugar than flour and two times more sugar than butter. How much flour(in g) is in the recipe?
1. 600 2. 550 3. 750 4. 500
55. The simple interest on a certain amount of money is 27% of the principal amount. The time for which the money is lent is one-third of the numerical value of the rate per cent per annum. What is the rate per cent?
1. 15% 2. 12% 3. 9% 4. 6%

56. A company produced a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.



What is the difference between the average production of bottles of flavour Q in 2004, 2005 and 2006 and the average production of flavour P in 2001, 2002 and 2003?

1. 33,40,000
 2. 50,00,000
 3. 40,00,000
 4. 33,30,000
57. The numbers 5, 7, 8, 10, 12, 13 and N are arranged in ascending order. If the mean of the numbers is equal to the median, the value of N is:
1. 16
 2. 25
 3. 15
 4. 14
58. If the internal dimensions of a rectangular closed wooden box are 30 cm, 18 cm and 23 cm, what space (in cm³) will it occupy, if the wood used is 1 cm thick?
1. 12420
 2. 16000
 3. 14136
 4. 9408
59. Pipe P and Q can fill a completely empty tank in 24 minutes and in 36 minutes, respectively, when opened independently. Pipe R can empty the completely filled tank in 30 minutes. Initially all three pipes P, Q and R, are opened simultaneously. After how many minutes should pipe Q be closed so that the tank is filled in 1 hour?
1. 18
 2. 15
 3. 24
 4. 30
60. A company product a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.



For which of the following years is the percentage of increase/decrease in production from the previous year the highest for flavour R?

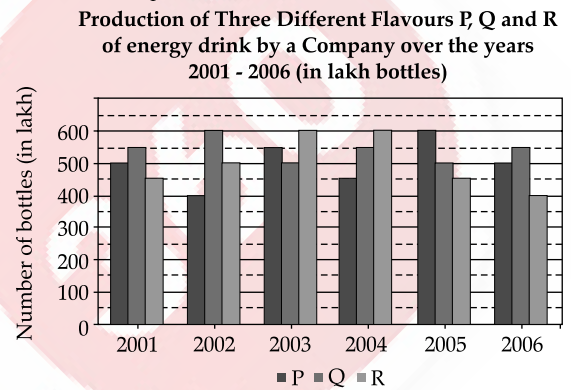
1. 2005, decrease
2. 2002, increase
3. 2006, decrease
4. 2003, increase

61. Which is the largest number that divides 827, 1149 and 1310 to leave the same remainder in each case?
1. 161
 2. 116
 3. 232
 4. 322

62. What is the simplified value of

$$\left(8.5 - 2\frac{1}{2}\right) \text{ of } 16.5 - \left[27.4 - \left\{10\frac{1}{4} \text{ of } 2.5 - \left(1\frac{1}{2} - 1\frac{1}{5}\right)\right\}\right] ?$$

1. 97.075
 2. 99.925
 3. 96.925
 4. 101.075
63. A man is driving to his workplace at five-eighths of his usual speed. He reaches his workplace 36 minutes late. What is his usual time (in hours) of travel?
1. 1
 2. 2.5
 3. 2
 4. 1.5
64. A metal cube of edge 18 cm is melted to form three smaller cubes, which are unequal in dimensions. If the edges of two smaller cubes are 9 cm and 15 cm, what is the surfac area in (cm²) of the third smaller cube?
1. 1944
 2. 864
 3. 1728
 4. 486
65. A company produced a new energy drink of three different flavours — P, Q and R — for athletes. The production of the three flavours over a period of six years from 2001 to 2006 has been expressed in the bar graph shown below. Study the graph and answer the question that follows.



What is the percentage (correct to one decimal place) of the total production of flavour P in 2003 and 2004 with respect to the total production of flavour R in 2001 and 2002?

1. 95.0%
 2. 115%
 3. 87.0%
 4. 105.3%
66. The average weight of 25 boxes in a boat is increased by 2 kg when one of the boxes weighing 68 kg is replaced by a new box. The weight (in kg) of the new box is:
1. 70
 2. 118
 3. 132
 4. 97
67. Four years ago, the average age of a group of five numbers was 38 years. One more man joins the group and the present average age of the group member becomes 44 years. What is the present age (in years) of the new member?
1. 74
 2. 52
 3. 30
 4. 54
68. A boat sails downstream from a point P to point Q, which is 24 km away from P, and then returns to P. If the actual speed of the boat (in still water) is 6 km/h, the entire trip from p to Q takes 3 hours less than that from Q to P. What should be actual speed (in km/h) of the boat to boat to sail from P to Q in 2 hours?
1. 12
 2. 15
 3. 10
 4. 22
69. A number was divided by 8, instead of being multiplied by 8. As a result of this, there was an error in the answer. What is the percentage difference (correct to two places of decimal) in the answer due to this miscalculation?
1. 48.67%
 2. 67.33%
 3. 98.44%
 4. 72.00%
70. A man sells 30 apples for the cost price of 40 apples. His profit percentage (correct to two places of decimal) is:
1. 33.33%
 2. 25.00%
 3. 30.67%
 4. 40.33%

71. What will be the compound interest (in ₹) on ₹10,000 for 2 years at 5% per annum, compounded annually?
1. 11,025 2. 1,000 3. 1,025 4. 11,000
72. A man sells two items at ₹250 each. What is the value (in ₹) of the profit or loss incurred in this transaction, if he sells one at a profit of 25% and the other at a loss of 25%?
1. Profit, 33.33 3. Loss, 66.67
2. Profit, 66.67 4. Loss, 33.33
73. The value of $\frac{1}{6} + \left[4 \frac{3}{4} - \left(3 \frac{1}{6} - 2 \frac{1}{3} \right) \right]$ lies between:
 $\left(\frac{1}{5} \text{ of } \frac{1}{5} \div \frac{1}{5} \right) \div \left(\frac{1}{5} \div \frac{1}{5} \times \frac{1}{5} \right)$
1. 4.2 and 4.3 3. 4.3 and 4.4
2. 4.0 and 4.1 4. 4.6 and 4.8
74. A shopkeeper earns a profit of 40% on the cost price of an article after giving three consecutive discounts of 5%, 10% and 15% to a customer. What have been the profit percentage, had the shopkeeper given discounts of 5% and 10% only?
1. 59.71% 3. 64.71%
2. 66.71% 4. 74.71%
75. A sum of ₹2,130 is to be divided into three parts. The second part is 60% of the first, and the ratio of the first to third part is 5 : 7. What are the parts (in ₹)?
1. 426, 710, 994 3. 994, 710, 426
2. 710, 426, 994 4. 710, 994, 426

General Awareness

76. Which Indian cricket player's autobiography is titled 'Playing It My Way'?
1. Ravi Shastri 3. Sourav Ganguly
2. Kapil Dev 4. Sachin Tendulkar
77. Who among the following was appointed as the Managing Director and CEO of HDFC Bank in August 2020?
1. Aditya Puri 3. Manoj Sinha
2. Raamdeo Aggarwal 4. Sashidhar Jagdishan
78. A large, muscular sheet called _____ forms the floor of the chest cavity.
1. diaphragm 3. duodenum
2. larynx 4. alveoli
79. Who among the following was India's first world champion in any sport after independence?
1. Milkha Singh 3. Ramanathan Krishnan
2. Lila Ram 4. Wilson Jones
80. Janapada Geete, which includes the vachanas of Basavanna, is associated with the state of _____.
1. Odisha 3. West Bengal
2. Kerala 4. Karnataka
81. Which of the following is an autotroph?
1. Animal 2. Plant 3. Fungi 4. Human
82. Which of the following articles of the Constitution of India gives us a description of 'Money Bill'?
1. 127 2. 110 3. 95 4. 123
83. Whose proclamation of November 1, 1858 declared that thereafter India would be governed by and in the name of the British Monarch through a Secretary of State?
1. King Louis' 3. Queen Victoria's
2. King Philips' 4. Queen Elizabeth's
84. The First Battle of Tarain was fought in the year _____.
1. 1213 2. 1157 3. 1204 4. 1191
85. Which of the following is the indigestible portion of our diet essential to the health of the digestive system?
1. Fats 3. Carbohydrates
2. Roughage 4. Proteins
86. In which Olympic games did India win the gold medal in men's hockey, for the first time post-independence?
1. London 2. Sydney 3. Barcelona 4. Athens
87. Which of the following is a fair held at the shrine of Mastan Shah Vali?
1. Pir Budhan fair 3. Karam fair
2. Hira Bhumia fair 4. Dhamoni Urs
88. Which of the following is the oldest stock exchange in India?
1. DSE 2. BSE 3. CSE 4. NSE
89. In which year did the Sepoy Mutiny end?
1. 1874 2. 1862 3. 1888 4. 1858
90. The 'Paitkar' paintings are unique cultural symbols of _____.
1. Jharkhand 3. Telangana
2. Chhattisgarh 4. Karnataka
91. Which Article of the Constitution of India declares that laws inconsistent with Part III before the commencement of the Constitution of India, 1950, are void?
1. 10 2. 17 3. 13 4. 19
92. Apart from the red and green wavelengths of sunlight, which other wavelength of sunlight is absorbed by water molecules in the ocean?
1. Orange 2. Blue 3. Violet 4. Yellow
93. Which of the following is an Export Processing Zone (EPZ) set up in West Bengal?
1. Farakka 2. Falta 3. Haldia 4. Midnapur
94. What was India's rank in the 12th edition of the biennial Environment Performance Index (EPI 2020)?
1. 168 2. 177 3. 152 4. 174
95. When an ant bites, it injects acidic liquid (formic acid) into the skin. What among the following should be applied to the skin to neutralise it?
1. Lime juice 3. Moist baking soda
2. Tomato pulp 4. Bleaching powder
96. Which Prime Minister among the following had signed the Assam Accord with the All Assam Gana Sangram Parishad in 1985?
1. PV Narasimha Rao 3. IK Gujral
2. Rajiv Gandhi 4. VP Singh
97. Which year was observed as the International Year of Fresh-water?
1. 2000 2. 2009 3. 2007 4. 2003
98. The Sangeet Natak Akademi Award for contribution to Performing Arts has been conferred on artists since the year _____.
1. 1950 2. 1961 3. 1952 4. 1959
99. Who among the following was the author of the book 'Waiting for a Visa'?
1. Sardar Vallabhbhai Patel
2. Mahatma Gandhi
3. Dr. BR Ambedkar
4. Jawaharlal Nehru
100. The groundwater stored between layers of hard rock below the water table is called:
1. glacier 2. hot spring 3. geyser 4. aquifer

Answer Key

1. (4)	2. (2)	3. (3)	4. (3)	5. (3)	6. (2)	7. (2)	8. (4)	9. (3)	10. (2)
11. (2)	12. (3)	13. (2)	14. (3)	15. (3)	16. (3)	17. (2)	18. (4)	19. (3)	20. (4)
21. (3)	22. (3)	23. (3)	24. (3)	25. (1)	26. (3)	27. (3)	28. (4)	29. (4)	30. (3)
31. (4)	32. (4)	33. (3)	34. (3)	35. (4)	36. (2)	37. (4)	38. (4)	39. (3)	40. (2)
41. (1)	42. (2)	43. (4)	44. (4)	45. (4)	46. (1)	47. (1)	48. (1)	49. (2)	50. (3)
51. (2)	52. (2)	53. (3)	54. (1)	55. (3)	56. (2)	57. (3)	58. (2)	59. (1)	60. (1)
61. (1)	62. (3)	63. (1)	64. (2)	65. (4)	66. (2)	67. (4)	68. (3)	69. (3)	70. (1)
71. (3)	72. (4)	73. (2)	74. (3)	75. (2)	76. (4)	77. (4)	78. (1)	79. (4)	80. (4)
81. (2)	82. (2)	83. (3)	84. (4)	85. (2)	86. (1)	87. (4)	88. (2)	89. (4)	90. (1)
91. (3)	92. (4)	93. (2)	94. (1)	95. (3)	96. (2)	97. (4)	98. (3)	99. (3)	100. (4)

Answers with Explanations

1. **Option (4) is correct.**
The correct sentence is: The sound of thunder was followed by a heavy downpour. Here, 'followed by' will replace the phrase 'followed to'. We use 'followed by' to say what comes after something else in a list or ordered set of things.
2. **Option (2) is correct.**
The correct sentence is: Both of us went out for lunch yesterday. The sentence is in past tense, as evinced in the use of phrase of past time 'yesterday'. This mandates the use of simple past tense. So 'went' will substitute 'going out'.
3. **Option (3) is correct.**
'Wicked' means morally wrong and bad. 'Devilish' implies 'like or appropriate to a devil in evil and cruelty.' While 'jinxed' means 'bring bad luck to; cast an evil spell on.' 'Monstrous' means 'inhumanly or outrageously evil or wrong.'
4. **Option (3) is correct.**
The correct sentence is: Many people from this village have migrated in search of work. The correct phrase is 'in search of' which means 'attempting to find'. So 'in search of' will replace 'for searching of'.
5. **Option (3) is correct.**
The incorrectly spelt word is 'peasant', it should have been 'peasant' (farmer).
6. **Option (2) is correct.**
Amphibians are multicellular vertebrates that live both on land and water. 'Aquatic' is of, in, or pertaining to water, living or growing in water. Terrestrial implies of or relating to the earth or its inhabitants. 'Aerial' is existing, happening, or operating in the air.
7. **Option (2) is correct.**
Plentiful means existing in or yielding great quantities. 'Meagre' (insufficient) is the antonym. So, the synonym is 'ample'.
8. **Option (4) is correct.**
'Delightfull' is the incorrectly spelt word, it should have been 'delightful' (pleasant).
9. **Option (3) is correct.**
'Royal' means 'having the status of a king or queen or a member of their family'. So 'kingly' is the correct synonym. All options, except (3) are antonyms of the given word.
10. **Option (2) is correct.**
The correct sentence is: I don't think we can talk to him at all. He doesn't listen. The sentence is in present tense, so using past tense does not do justice. Simple present tense is used when we refer to actions that happen regularly, or is a habit. So, 'doesn't listen' will substitute 'wasn't listening'.
11. **Option (2) is correct.**
The correct sentence is: His injury does not seem to affect him much. Here, 'does not seem' should be used instead of 'does not seem's. Whenever the auxiliary do/does/did occur with the main verb, it agrees with the base form of the main verb. So 'seem' is appropriate.
12. **Option (3) is correct.**
The correct sentence is: Life without laughter would be a dull affair. The sentence is grammatically correct.
13. **Option (2) is correct.**
The correct sentence is: She went in. I was just going to call her when she appeared again. 'Appeared' means 'come into sight; become visible or noticeable'. Cropped means cut very short.
14. **Option (3) is correct.**
The correct sentence is: However hard she tried, Amayra could not memorise the poem. 'However' is used to introduce a statement that contrasts with or seems to contradict something that has been said previously. 'Because' is a conjunction of reason; 'though' means 'despite the fact that'. in the context, 'however' suits the best.
15. **Option (3) is correct.**
'Fake' means not genuine. So 'genuine' is correct. All options, except (3) are synonyms of the given word.
16. **Option (3) is correct.**
The correct sentence is: The terrorists were armed with machine guns. 'Armed with' means to have access to something that can be useful to you.
17. **Option (2) is correct.**
Miserable means 'very low in quality or value'. All options, except (2) are synonyms of the given word. So 'cheerful' is correct.
18. **Option (4) is correct.**
If you are off your food, you do not want to eat, usually because you are ill. The correct answer is: to have no appetite.
19. **Option (3) is correct.**
The idiom 'to go bananas' means 'very excited and wild.' Thus, to become very excited or angry. She will go bananas when she hears about her selection.
20. **Option (4) is correct.**
The correct sentence is: The brave soldiers captured the position they had lost. Captured means 'take into one's possession or control by force.' 'Detain' means to cause to be late or behind in movement or progress. 'Invaded' implies to enter (a country or region) so as to occupy it. So 'captured' rightfully justifies the blank.
21. **Option (1) is correct.**
The correct sentence is: My first voyage had been very profitable. I was again a wealthy man. Since the context refers to the voyage being a profitable one, therefore, this must have made him a rich person.

22. Option (3) is correct.

The correct sentence is: I did not lack for luxury or entertainment. But my friend, I could not rest for long. The two sentences are a contrast to each other. One claims that the speaker did not lack for luxury or entertainment, while the other states that despite that, he could not rest for long. Thus, 'but' is preferred over other conjunctions, because 'but' is used for joining two ideas or statements when the second one is different from the first one'.

23. Option (3) is correct.

The correct sentence is: I had tasted the salt air and the thrill of travel and adventure. According to grammar, past perfect is used to talk about an action that happens before another action in Past Simple. So 'had tasted' is the appropriate choice.

24. Option (3) is correct.

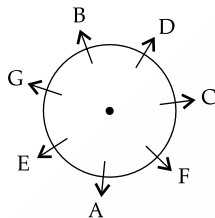
The correct sentence is: Soon I was pulled by the will of Allah back to the seaport at Basra. The passage is in past tense. So 'was pulled/had pulled' are correct. But the meaning changes with 'had pulled', so 'was pulled' is correct.

25. Option (1) is correct.

The correct sentence is: Soon I was pulled by the will of Allah back to the seaport at Basra, where I found a newly-made ship with fine sails and the best equipment. The pronoun 'where' is appropriate because it is used to indicate the location or position of a subject. Here, the subject is 'the seaport at Basra'.

26. Option (3) is correct.

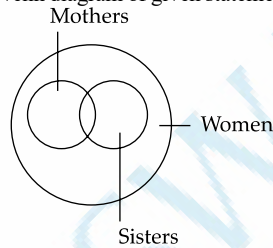
The sitting arrangement of seven persons along a round table facing outward is as following:



From the above arrangements, F is sitting right of C.

27. Option (3) is correct.

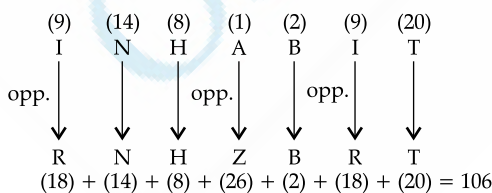
The best suited venn diagram of given statements is as follows:



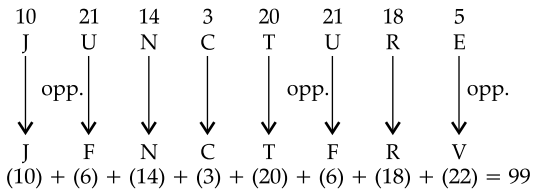
So, mothers and sisters are both women.

28. Option (4) is correct.

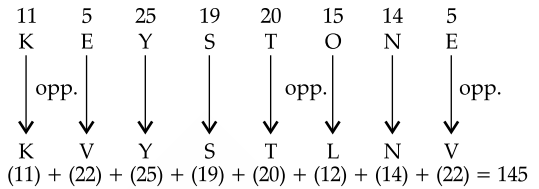
Given that: INHABIT is coded as 106



Here, all the vowels of the given word are opposite to respective alphabet, and the consonants remain the same. And, JUNCTURE is coded as 99



Similarly, KEYSTONE is written in the same way



Therefore, KEYSTONE will be coded as 145.

29. Option (4) is correct.

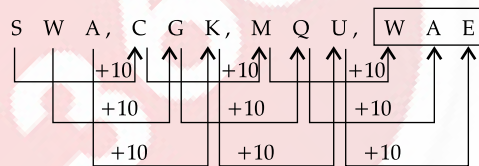
As we know that a golf course is the ground where golf is played. Similarly, boxing ring is a place where boxing match is played.

30. Option (3) is correct.

Given that: $84 : 21$
 $84 \div (8 - 4) = 84 \div 4 = 21$
 Similarly, $65 : 65$
 $65 \div (6 - 5) = 65 \div 1 = 65$

31. Option (4) is correct.

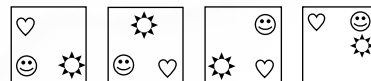
The pattern of the series is as follows:



Here, each letter of the given word is increased by 10. Therefore, WAE will complete the series.

32. Option (4) is correct.

The pattern of the figure series is as follows:



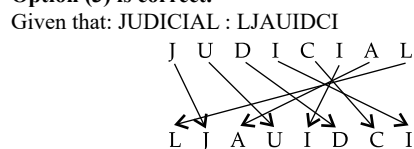
33. Option (3) is correct.

Given that : (8, 18, 32)
 The pattern followed here is :
 $\left[\frac{(1^{st} \text{ term} + 3^{rd} \text{ term})}{2} \right] - 2 = 2^{nd} \text{ term.}$
 So, $\left[\frac{8 + 32}{2} \right] - 2 \Rightarrow \left[\frac{40}{2} \right] - 2 \Rightarrow 20 - 2 = 18.$

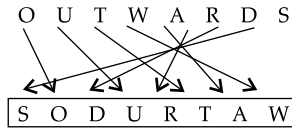
Similarly, upon checking option (3) we get,
 $\left[\frac{50 + 98}{2} \right] - 2 \Rightarrow \left[\frac{148}{2} \right] - 2 \Rightarrow 74 - 2 = 72.$

Hence, (50, 72, 98) is the correct answer.

34. Option (3) is correct.



Similarly, OUTWARDS : SODURTAW



Hence, OUTWARDS will be written as SODURTAW.

35. **Option (4) is correct.**

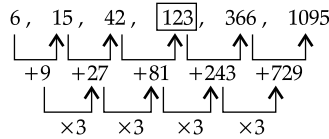
Given expression: $75 \div 15 - 18 \times 12 + 17 = 79$

Upon checking option 4 and interchanging signs and numbers, we get:

$$\begin{aligned} 72 - 12 \div 18 \times 15 + 17 &= 79 \\ \Rightarrow 72 - 0.66 \times 15 + 17 &= 79 \\ \Rightarrow 72 - 10 + 17 &= 79 \\ \Rightarrow 89 - 10 &= 79 \\ \Rightarrow 79 &= 79 \end{aligned}$$

36. **Option (2) is correct.**

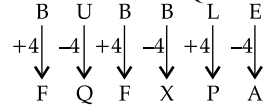
The pattern of the series is as follows:



Hence, 123 will complete the series.

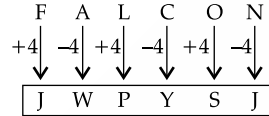
37. **Option (4) is correct.**

Given that: BUBBLE is written as FQFXPA



Here, the first, third and fifth letter of the given word are increased by 4 and the second, fourth and sixth letter are decreased by 4.

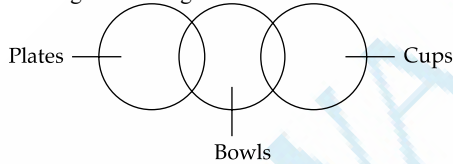
Similarly, FALCON is written in the same way



Hence, FALCON will be written as JWPYSJ.

38. **Option (4) is correct.**

The venn diagram of the given statements is as follows:



From conclusion I: Some plates are cups is false.
From conclusion II: Some bowls are plates is true.
Hence, only conclusion II follows.

39. **Option (3) is correct.**

After unfolding, it will appear as follows:



40. **Option (2) is correct.**

Given expression:

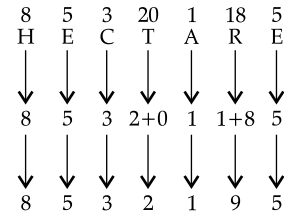
$$8 - 13 + 32 \div 8 \times 17 = 91$$

Upon checking option 2 and interchanging sign, we get:

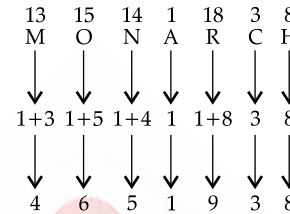
$$\begin{aligned} 8 \times 13 + 32 \div 8 - 17 &= 91 \\ \Rightarrow 8 \times 13 + 4 - 17 &= 91 \\ \Rightarrow 104 + 4 - 17 &= 91 \\ \Rightarrow 108 - 17 &= 91 \\ \Rightarrow 91 &= 91 \\ \Rightarrow \text{LHS} &= \text{RHS} \end{aligned}$$

41. **Option (1) is correct.**

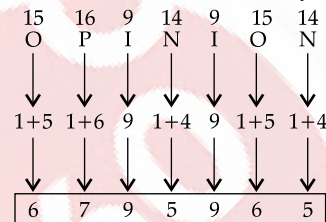
Given that: HECTARE is coded as 8532195



And, MONARCH is coded as 4651938



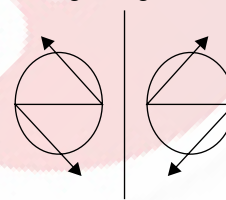
Similarly, OPINION is coded in the same way



Hence, OPINION will be coded as 6795965.

42. **Option (2) is correct.**

The mirror image of the given figure is as follows:



43. **Option (4) is correct.**

The arrangement is as follows:

No. of Stores	Name of Stores				
	1	2	3	4	5
1	U	W	U	U	U
2	W	U	Z	W	W
3	X	X	X	X	X
4	V	V	W	V	V
5	Y	Y	V	W	Y
6	Z	Z	Y	Y	W

Hence, from the above arrangements, the sales representative could visit any of the companies immediately after X, except U.

44. **Option (4) is correct.**

Here, 'Doe' is a female deer, and 'Stag' is a male deer. Similarly, a female bee is called a 'Drone'.

45. **Option (4) is correct.**

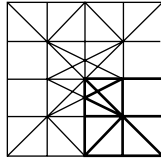
The pattern of the given series is as follows:

$$\begin{aligned} 12 + 6 &= 18 \\ 18 + 3 &= 21 \\ 21 + 6 &= 27 \\ 27 + 3 &= 30 \\ 30 + 6 &= 36 \end{aligned}$$

Therefore, 36 will complete the series.

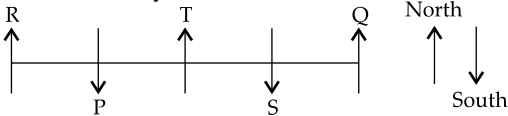
46. Option (1) is correct.

Option 1 figure will complete the given figure.



47. Option (1) is correct.

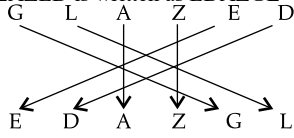
The sitting arrangement of five friends on a bench facing north and south alternately is as follows:



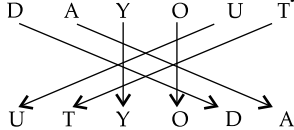
Therefore, the position of S is facing south and right of T.

48. Option (1) is correct.

Given that: GLAZED is written as EDAZGL



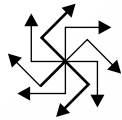
Similarly, DAYOUT is written in the same way



Therefore, DAYOUT will be written as UTYODA.

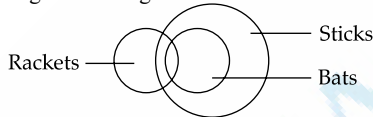
49. Option (2) is correct.

The option 2 figure is embedded in the given image as follows:



50. Option (3) is correct.

The venn diagram of the given statements is as follows:



From conclusion I: All rackets are sticks is false.
 From conclusion II: Some rackets are not sticks is also false.
 From conclusion III: Some sticks are rackets is true.
 Therefore, only conclusion III follows.

51. Option (2) is correct.

$$8W + 8G = 6 \text{ days} \quad \dots(1)$$

$$48W + 48G = 1 \text{ day} \quad \dots(1)$$

and,

$$4W + 10G = 8 \text{ days} \quad \dots(2)$$

$$32W + 80G = 1 \text{ day} \quad \dots(2)$$

From (1) and (2)

$$48W + 48G = 32W + 80G$$

$$\Rightarrow 16W = 32G$$

$$\Rightarrow W = 2G$$

Now,

$$8W + 8G = 6 \text{ days}$$

$$\Rightarrow 8(2G) + 8G = 6 \text{ days}$$

$$\Rightarrow 24G = 6 \text{ days}$$

Hence, 1 G will do work = 144 days

52. Option (2) is correct.

Length of the longest pole = $\sqrt{l^2 + b^2 + h^2}$

$$= \sqrt{12^2 + 6^2 + 4^2}$$

$$= \sqrt{144 + 36 + 16}$$

$$= \sqrt{196} = 14.0 \text{ m}$$

53. Option (3) is correct.

Let the provision last for x days

$$400 \times 60 = 35 \times 400 + 500x$$

$$\Rightarrow \frac{400 \times 25}{500} = x \Rightarrow x = 20$$

Hence, the provision will last for 20 days.

54. Option (1) is correct.

Sugar	flour	butter
1×2	3×2	
2×1		1×1

Ratio of sugar, flour, butter will be
 $2:6:1 = 9 \text{ units}$
 Now 9 units = 900 grams
 $1 \text{ unit} = \frac{900}{9} = 100 \text{ grams}$

Flour in the recipe = 6 unit = $6 \times 100 = 600 \text{ grams}$

55. Option (3) is correct.

$$T = \frac{1}{3}R$$

$$SI = 27\% \text{ of } P$$

$$SI = \frac{P \times R \times T}{100}$$

$$\frac{27}{100}P = \frac{P \times R \times \left(\frac{1}{3}R\right)}{100}$$

$$R^2 = 3 \times 3 \times 3 \times 3$$

$$R = 9\%$$

56. Option (2) is correct.

Average production of the bottle of flavours Q in 2004, 2005, 2006

$$= \frac{550 + 500 + 550}{3} = \frac{1600}{3} \text{ in lakhs}$$

Average production of bottle of flavour P in 2001, 2002, 2003

$$= \frac{500 + 400 + 550}{3} = \frac{1450}{3} \text{ in lakhs}$$

$$\text{Required difference} = \frac{1600 - 1450}{3} = \frac{150}{3} = 50 \text{ in lakhs}$$

$$= 50,00,000$$

57. Option (3) is correct.

Number of observations = 7 odd

Hence, Median = $\frac{n+1}{2}$ th = 4th observation

Median = 10

Mean = Median

$$\Rightarrow \frac{5 + 7 + 8 + 10 + 12 + 13 + N}{7} = 10$$

$$\Rightarrow 55 + N = 70$$

$$\Rightarrow N = 15$$

58. Option (2) is correct.

External length of the wooden box = $[30 + (1 + 1)] = 32 \text{ cm}$

External breadth of the wooden box = $[18 + (1 + 1)] = 20 \text{ cm}$

External height of the wooden box = $[23 + (1 + 1)] = 25 \text{ cm}$

Volume of the wooden box = $[32 \times 20 \times 25] \text{ cm}^3$

$$= 16000 \text{ cm}^3$$

59. Option (1) is correct.

Work = Efficiency \times Time
 LCM of 24, 36 and 30 is 360

Let the height of the tank is 360 m

$$\text{Efficiency of pipe P} = \left(\frac{360}{24}\right) = 15$$

i.e pipe P can fill the tank at a rate of $\frac{15 \text{ m}}{\text{min}}$

Similarly,

Efficiency of pipe Q

$$= \left(\frac{360}{36}\right) = 10 \text{ m/min}$$

Efficiency of pipe R

$$= \left(\frac{360}{30}\right) = \frac{12 \text{ m}}{\text{min (rate of emptying the tank)}}$$

Now,

Let's assume pipe Q is closed after x minutes

According to the question

Pipe P will work for 60 min

Pipe Q will work for x minutes

Pipe R will work for 60 minutes

$$(15 \times 60) + (10x) - (12 \times 60) - (12 \times 60) = 360$$

$$900 + 10x - 720 = 360$$

$$180 + 10x = 360$$

$$10x = 180$$

$$x = 18 \text{ minutes}$$

60. Option (1) is correct.

Production of flavour R in 2004 = 600

Production of flavour R in 2005 = 450

$$\text{The highest \% decrease in 2005} = \frac{600 - 450}{600} \times 100$$

$$\frac{150}{600} \times 100 = 25\%$$

61. Option (1) is correct.

HCF of 827, 1149, and 1310

$$1149 - 827 = 322$$

$$1310 - 1149 = 161$$

$$1310 - 827 = 483$$

Now, HCF of 322, 161 and 483 is

$$322 = 2 \times 161$$

$$161 = 1 \times 161$$

$$483 = 3 \times 161$$

The HCF is 161

62. Option (3) is correct.

$$\left(8.5 - 2\frac{1}{2}\right) \text{ of } 16.5 - [27.4 - \{10\frac{1}{4} \text{ of } 2.5 - (1\frac{1}{2} - 1\frac{1}{5})\}]$$

Using BODMAS rule, we get

$$= \left(8.5 - \frac{5}{2}\right) \text{ of } 16.5 - [27.4 - \{ \frac{41}{4} \text{ of } 2.5 - (\frac{3}{2} - \frac{6}{5}) \}]$$

$$= (8.5 - 2.5) \text{ of } 16.5 - \left[27.4 - 25.625 + \frac{3}{10}\right]$$

$$= 6 \text{ of } 16.5 - [2.075]$$

$$= 99 - [2.075] = 96.925$$

63. Option (1) is correct.

Distance = Speed \times time

As we know that, time is inversely proportional to speed

Let the usual speed of the person be 5x

Speed of the person after increasing = 8x

Ratio of usual speed to after increasing = 5x : 8x

Now,

The usual speed of the person

$$= 5x = \left(5 \times \frac{1}{5}\right) \text{ hours} = 1 \text{ hour}$$

64. Option (2) is correct.

Volume of cube = a^3

Surface area of cube = $6a^2$

According to question

Volume of metal cube = Volume of three small cubes

$$(18)^3 = (9)^3 + (15)^3 + c^3$$

$$\Rightarrow 5832 = 729 + 3375 + c^3$$

$$\Rightarrow 5832 - 729 - 3375 = c^3$$

$$\Rightarrow 1728 = c^3$$

$$\Rightarrow c = 12 \text{ cm}$$

Now, the surface area of the cube

$$= (6 \times 12 \times 12) \text{ cm}^2$$

$$= 864 \text{ cm}^2$$

65. Option (4) is correct.

Production of Flavour P in 2003 and 2004

$$= 550 + 450 = 1000$$

Production of Flavour R in 2001 and 2002

$$= 450 + 500 = 950$$

$$\text{Required \%} = \frac{1000}{950} \times 100 = 105.26\%$$

66. Option (2) is correct.

Total weight = Average weight \times number of boxes

Let the average weight of 25 boxes be x kg and the weight of the new box be y kg respectively

Total weight of 25 boxes = $(25 \times x) = 25x$

According to question

$$\frac{25x - 68 + y}{25} = x + 2$$

$$\Rightarrow 25x - 68 + y = 25x + 50$$

$$\Rightarrow y = 50 + 68$$

$$\Rightarrow y = 118$$

67. Option (4) is correct.

Four years ago: The average age of 5 members was 38

$$38 = \frac{\text{sum of 5 members}}{5}$$

Or, sum of 5 members = $38 \times 5 = 190$

Present age = Age of person 4 years ago + 4 years

The sum of current age of 5 members

$$= [190 + (4 \times 5)]$$

$$= [190 + 20] = 210 \text{ years}$$

Now, one more man joins the group and the present age of group members becomes 44 years, hence

$$44 = \frac{\text{sum of ages of all 6 members}}{6}$$

Sum of ages of all 6 members = $44 \times 6 = 264$

Now, the present age of the new member

$$= (264 - 210) \text{ years}$$

$$= 54 \text{ years}$$

68. Option (3) is correct.

Let the speed of the stream be $\frac{x \text{ km}}{h}$

Distance between P and Q = 24 km

$$\text{Time taken to travel upstream Q to P} = \frac{24}{6 - x}$$

$$\text{Time taken to travel downstream P to Q} = \frac{24}{6 + x}$$

Now,

$$\frac{24}{6 - x} + \frac{24}{6 + x} = 3$$

$$\Rightarrow \frac{24(6 + x) - 24(6 - x)}{(6 - x)(6 + x)} = 3$$

$$\Rightarrow \frac{8(x+x)}{6^2-x^2} = 1$$

$$\Rightarrow 16x = (36-x^2)$$

$$\Rightarrow x^2 + 16x - 36 = 0$$

$$\Rightarrow x^2 - 2x + 18x - 36 = 0$$

$$\Rightarrow x(x-2) + 18(x-2) = 0$$

$$\Rightarrow (x-2)(x+18) = 0$$

$$\Rightarrow x = 2, x = -18$$

Now the actual speed of the boat to sail from P to Q in 2 hours

$$= \frac{24}{B+W} = 2$$

$$12 = B + 2$$

$$B = 12 - 2 = 10 \text{ km/hour}$$

Hence, the actual speed of the boat is 10 km/hour

69. Option (3) is correct.

Let the number be x

$$\text{The resultant} = \frac{x}{8}$$

The required result = $8x$

$$\text{Error} = \left(8x - \frac{x}{8} \right)$$

$$= \frac{64x - x}{8}$$

$$= \frac{63x}{8}$$

$$\text{Percentage of error} = \left[\frac{63x}{8x} \times 100 \right]$$

$$= \left[\frac{63x}{64x} \times 100 \right]$$

$$= \left[\frac{63 \times 25}{16} \right]$$

$$= \left[\frac{1575}{16} \right]$$

$$= 98.4375\% = 98.44\%(\text{approx})$$

70. Option (1) is correct.

$$\text{Profit} = \text{SP} - \text{CP}$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{CP}} \times 100$$

Now,

SP of 30 apples = CP of 40 apples

$$\frac{\text{SP}}{\text{CP}} = \frac{4}{3}$$

$$\text{Profit} = (4 - 3) = 1$$

$$\text{Profit \%} = \left(\frac{1}{3} \times 100 \right) = \frac{100}{3} \% = 33.33\%$$

71. Option (3) is correct.

$$A = P \left(1 + \frac{R}{100} \right)^n$$

$$A = 10,000 \left(1 + \frac{5}{100} \right)^2$$

$$A = 10,000 \left(\frac{105}{100} \right)^2$$

$$A = 10,000 \times \left(\frac{105}{100} \right) \times \left(\frac{105}{100} \right)$$

$$A = 105 \times 105 = ₹ 11,025$$

$$I = A - P$$

$$= 11,025 - 10,000$$

$$I = ₹ 1,025$$

72. Option (4) is correct.

$$\text{SP of two items} = ₹ 250 + ₹ 250 = ₹ 500$$

$$\text{Profit} = 25\%$$

$$\text{Loss} = 25\%$$

$$\text{Loss} = \text{CP} - \text{SP}$$

CP of the article having sold on profit

$$= \frac{250 \times 100}{125} = ₹ 200$$

CP of the article suffered loss

$$= \frac{250 \times 100}{75} = ₹ 333.33$$

Total CP of both the articles

$$= ₹ 200 + ₹ 333.33 = ₹ 533.33$$

Total SP of both the articles

$$= ₹ 500$$

$$\text{Loss} = (533.33 - 500) = 33.33$$

73. Option (2) is correct.

$$\frac{1}{6} + \left[4 \frac{3}{4} - \left(3 \frac{1}{6} - 2 \frac{1}{3} \right) \right]$$

$$\left(\frac{1}{5} \text{ of } \frac{1}{5} \div \frac{1}{5} \right) \div \left(\frac{1}{5} \div \frac{1}{5} \times \frac{1}{5} \right)$$

$$\frac{1}{6} + \left[\frac{19}{4} - \left(\frac{19}{6} - \frac{7}{3} \right) \right]$$

$$\left(\frac{1}{25} \times \frac{5}{1} \right) \div \left(1 \times \frac{1}{5} \right)$$

$$\frac{1}{6} + \left[\frac{19}{4} - \frac{5}{6} \right]$$

$$= \left(\frac{1}{5} \right) \div \left(\frac{1}{5} \right)$$

$$= \frac{1}{6} + \left[\frac{57 - 10}{12} \right]$$

$$= \frac{2 + 47}{12} = \frac{49}{12} = 4.08$$

The values lies between 4.0 and 4.1

74. Option (3) is correct.

$$\text{Profit} = \text{SP} - \text{CP}$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{CP}} \times 100$$

$$\text{SP} = \text{MP} \times \frac{100 - \text{Discount \%}}{100}$$

$$\text{CP} = \frac{100}{100 + \text{Profit \%}} \times \text{SP}$$

Now,

Let, MRP be x

A shopkeeper earns a profit of 40% on the cost price of an article

If CP = 100, then, SP = 140

Discount on MRP = 5%, 10% and 15%

$$\text{SP} = \text{MRP} \times \frac{100 - D1}{100} \times \frac{100 - D2}{100} \times \frac{100 - D3}{100}$$

$$140 = x \times \left(\frac{95}{100} \right) \times \left(\frac{90}{100} \right) \times \left(\frac{85}{100} \right)$$

$$x = \frac{140 \times 100 \times 100 \times 100}{85 \times 90 \times 95} = 192.64 \text{ (approx)}$$

The shopkeeper given discounts of 5% and 10%

$$SP = MRP \times \frac{100 - D1}{100} \times \frac{100 - D2}{100}$$

$$SP = 192.64 \times \left(\frac{95}{100}\right) \times \left(\frac{90}{100}\right) = 164.71$$

$$\text{Profit \%} = \frac{164.71 - 100}{100} \times 100 = 64.71\%$$

75. Option (2) is correct.

Let a, b, c be the 1st, 2nd, 3rd part respectively

Now, $b = 60\%$ of a

$$\frac{b}{a} = \frac{3}{5}$$

$$b:a = 3:5$$

Also, $a:c = 5:7$

Equating both ratios we get,

$$a:b:c = 5:3:7$$

Here $a + b + c = 2130$

$$15 \text{ units} = 2130$$

$$1 \text{ unit} = 142$$

So, $a = 710, b = 426, c = 994$

Hence, the required parts are 710, 426 and 994.

76. Option (4) is correct.

Sachin Tendulkar's autobiography is titled 'Playing It My Way.' Tendulkar is a former Indian cricketer. On November 5, 2014, it was introduced in Mumbai. Boria Majumdar and Sachin Tendulkar wrote the book.

77. Option (4) is correct.

Sashidhar Jagdishan has been named the next CEO of HDFC Bank, India's largest private-sector lender. The Reserve Bank of India approved Jagdishan's appointment to succeed Aditya Puri as managing director and CEO when he steps down in October 2020. Sashidhar Jagdishan joined HDFC Bank in 1996 as a finance manager.

78. Option (1) is correct.

The floor of the chest cavity is formed by a large, muscular sheet known as the diaphragm. The diaphragm, which is located beneath the lungs, is the primary respiratory muscle. It is a large, dome-shaped muscle that contracts rhythmically and involuntarily most of the time. The diaphragm contracts and flattens upon inhalation, and the chest cavity expands.

79. Option (4) is correct.

Wilson Lionel Garton-Jones was an Indian professional billiards player. He was the country's first world champion in any sport following independence. He made three unsuccessful attempts at the world title, beginning in 1951 in London and continuing with world championships in Calcutta (1952) and Sydney (1953). The world championship returned to Calcutta in 1958, and Jones found his stride.

80. Option (4) is correct.

Janapada Geethe is a thriving music form in Karnataka. Several folk epics were created by combining prose and verse sections. For both social and religious occasions, tribal people, in particular, had their own distinct songs and styles. Among folk music genres, the Vachanas of Basavanna, an ardent Shaivaites whose verses were so lyrical that they were incorporated into Janapada Sangita, are notable.

81. Option (2) is correct.

Plants are autotrophs, which means they can feed themselves. They use photosynthesis to convert water, sunlight, and CO₂ into oxygen and simple sugars that the plant can use as fuel. Autotrophs are organisms that can produce their own food using inorganic materials and basic energy sources such

as sunlight. Autotrophs that use photosynthesis are most commonly seen in plants. Phototrophic autotrophs, such as green plants and algae, convert electromagnetic energy from sunlight into chemical energy in the form of glucose.

82. Option (2) is correct.

Article 110 of India's constitution defines a money bill. Only a minister can introduce a Money Bill. It cannot be introduced in either the Rajya Sabha or the Vidhan Parishad. It can only be introduced in Lok Sabha with the President's prior recommendation for the introduction. Rajya Sabha is required to return a Money Bill passed and transmitted by Lok Sabha within 14 days of receiving it. The money bill can be introduced in both the Central (Lok Sabha) and State governments (only in Vidhan Sabha for both cases, bicameral legislature, and unicameral legislation). Karnataka, Uttar Pradesh, Maharashtra, Bihar, Andhra Pradesh, and Telangana have bicameral legislatures. The 2019 legislative council in Jammu and Kashmir has been abolished, according to the J&K Reorganisation Bill.

83. Option (3) is correct.

The East India Company's rule in India ended with the 1857 Rebellion. Following Queen Victoria's Proclamation of 1st November 1858, India would be governed by and in the name of the British Monarch through a Secretary of State. The Act for the Better Government of India was enacted in 1858. The Act was passed by the British Parliament. The Act received royal assent on August 2, 1858, but it was not implemented until November 1, 1858.

84. Option (4) is correct.

The First Battle of Tarain was fought in 1191 near Tarain between the Ghurids and the Chauhan and their allies. The Chauhan king, Prithviraj Chauhan, defeated the Ghurid king, Muhammad Ghori, who avenged his defeat a year later at the Second Battle of Tarain. Prithviraj Chauhan was the Chauhan dynasty's king from 1178 to 1192 AD, ruling the kingdoms of Delhi and Ajmer.

85. Option (2) is correct.

Roughage is an indigestible portion of our diet that is necessary for digestive health. Roughage is also referred to as fibre. The portion of plant-derived food that cannot be completely broken down by human digestive enzymes is referred to as dietary fibre or roughage. It is the portion of plant foods that your body cannot digest, such as whole grains, nuts, seeds, legumes, fruits, and vegetables. Roughage-rich foods may not help provide nutrients.

86. Option (1) is correct.

Independent India won its first Olympic Gold Medal in 1948, defeating Britain in the 1948 London Olympics. In Field Hockey, India won its first medal. When India was a part of British India, it won its first Olympic medal in hockey at the 1928 Amsterdam Olympics. In the final match, India defeated the Netherlands to win the gold medal. At the 2008 Beijing Olympics, Abhinav Bindra won a gold medal in the Men's 10-meter air rifle event, becoming the first Indian to do so.

87. Option (4) is correct.

Dhamoni Urs is a fair held at Mastan Shah Wali's shrine. It is organized in Dhamoni, Madhya Pradesh's Sagar district. This fair takes place in April and May. 'Dhamoni' is located about 50 kilometres north of Sagar on the Jhansi road. Two mausoleums of Muslim saints are also noteworthy. One of them is the tomb of Baljit Shah, who is regarded as the mentor of the well-known Mughal historian Abul Fazl. The second tomb is thought to be that of 'Mastan Shah Wali'.

88. Option (2) is correct.

The BSE (Bombay Stock Exchange) is not only India's oldest stock exchange but also Asia's oldest. It is India's largest stock exchange and is headquartered in Mumbai, Maharashtra.

Premchand Roychand founded the Bombay Stock Exchange in 1875 as the Native Share & Stock Brokers Association, and it was the first stock exchange to be recognized by the government under the Securities Contracts Regulation Act of 1957. The United States Securities and Exchange Commission designated BSE Limited as the first Indian Stock Exchange as a 'Designated Offshore Securities Market' (DOSM).

89. Option (4) is correct.

The Indian Mutiny began on May 10, 1857, in Meerut, and ended on June 20, 1858, in Gwalior, by Indian troops (sepoys) in the service of the British East India Company. The Indian Mutiny, also known as the Sepoy Mutiny or the First War of Independence, was a widespread but ultimately unsuccessful rebellion against British rule in India. It spread to cities such as Delhi, Agra, Kanpur, and Lucknow. In 1857, the Sepoy Mutiny was a violent and bloody uprising against British rule in India. In the south, sepoy units remained loyal, but in the north, many units of the Bengal Army turned against the British.

90. Option (1) is correct.

Paitkar paintings are created by Jharkhand tribals. This ancient style of painting is associated with Ma Mansa, one of the most popular goddesses in tribal households. Paitkar paintings are a creative expression of the folk art of the state. Paitkar paintings, also known as scroll paintings of the east, are mostly based on themes from Hindu epics such as the Mahabharata and Ramayana. These traditional paintings depict the stories of various gods and goddesses such as Shiva and Durga performing miracles. Paitkar painters typically use only primary colours such as red, yellow, and blue, with palm leaves serving as a base.

91. Option (3) is correct.

Part III of our Constitution mentions Article 13 as the guardian of rights. The means for judicial review are described in Article 13 of the Indian Constitution. It imposes the obligation to respect and implement fundamental rights on Indian state. At the same time, it empowers courts to declare a law or act unconstitutional if it violates fundamental rights. It states that 'All laws in force in the territory of India immediately before the commencement of this Constitution, in so far as they are inconsistent with the provisions of this Part, shall, to the extent of such inconsistency, be void'.

92. Option (4) is correct.

Because water absorbs so much light, the amount of light that gets through to the ocean decreases rapidly (or is attenuated) as you go deeper. The oceans absorb different wavelengths of light at different rates. Longer wavelengths are absorbed first; red absorbed in the upper 10 m range, orange in the 40 m range, and yellow in the 100 m range. Shorter wavelengths penetrate the water body deeper, with blue and green light reaching the deepest levels. All other colours are absorbed while blue light penetrates deeply and is scattered by the water molecules. As a result, the water appears blue. In contrast, coastal water is frequently greenish.

93. Option (2) is correct.

Export Processing Zones (EPZs) are specialized areas in a country where tariffs are eliminated in order to attract FDI and new business. Kandla became Asia's first EPZ in 1965. Following that, seven more zones were established. However, the zones were unable to emerge as effective export promotion tools. While the EPZ model's shortcomings were addressed, some new features were incorporated in the Special Economic Zones (SEZs) Policy, which was announced in April 2000.

94. Option (1) is correct.

The 12th edition of the biennial Environment Performance Index ranked India 168th (EPI Index 2020). It assessed the

environmental performance of 180 countries and was released on June 4, 2020, by Yale University. In 2018, India ranked 177 (with a score of 30.57 out of 100).

95. Option (3) is correct.

When an ant bites, formic acid is injected into the skin. To neutralize the acid, it can be treated with a base. Moist baking soda can act as a base to help neutralize it. Methanoic acid is also known as Formic Acid. The most basic carboxylic acid is formic acid. HCOOH or CH_2O_2 is the molecular formula. Formic acid is a colourless liquid with a strong odour. Baking soda is another name for sodium bicarbonate (NaHCO_3). Baking soda is a basic substance found in nature. Sodium bicarbonate inhibits stomach acid production. It is an antacid that is used to treat heartburn, indigestion, and stomach upset.

96. Option (2) is correct.

In 1985, Rajiv Gandhi signed the Assam Accord with the All Assam Gana Sangram Parishad. The Assam Accord was signed in 1985 by the Government of India, the State Government of Assam, and the leaders of the Assam Movement. Then Rajiv Gandhi-led central government and the All Assam Students' Union (AASU) signed the Assam Accord, which established a cutoff date as March 24, 1971 for foreign immigrants. Those entering Assam illegally after this date, regardless of religion, were to be caught and deported.

97. Option (4) is correct.

The United Nations General Assembly declared 2003 the International Year of Freshwater in order to raise awareness and mobilize action. UNESCO selected 2003 as the International Year of Freshwater. When evaluating concerns of importance to humanity, the supply of fresh water was just as essential as the greenhouse effect.

98. Option (3) is correct.

Sangeet Natak Akademi, or The National Academy of Music, Dance, and Theatre, was created by the Indian government as the country's national-level performing arts academy. The Indian Ministry of Education formed it on May 31, 1952, and Dr P. V. Rajamannar was named its first chairman the following year. Dr Rajendra Prasad, the country's first president, officially opened it on January 28, 1953, at a ceremony held in the Parliament Building. It serves as India's performing arts centre. It bestows the Sangeet Natak Akademi Awards, India's highest honour for practising or performing artists.

99. Option (3) is correct.

Waiting for a Visa is a 20-page autobiographical life story written by B.R. Ambedkar in 1935-36. It is made up of reminiscences drawn by Ambedkar in his own handwriting about his experiences with untouchability. Columbia University uses the book as a textbook. The book is divided into six sections, each of which recounts Ambedkar's experiences with untouchability, beginning with his childhood.

100. Option (4) is correct.

Aquifers are layers of hard rock beneath the water table that store groundwater. They are saturated areas beneath the water table. It is a body of porous rock or sediment that has been saturated with groundwater. Precipitation seeps through the soil and enters an aquifer. It has the ability to move through the aquifer and resurface via springs and wells. Aquifers are classified into two types: confined and unconfined. Unconfined aquifers are located beneath a permeable layer of soil and are surrounded by an impenetrable layer of rock or clay. Aquifers are usually composed of gravel, sand, sandstone, or fractured rock such as limestone. Water can move through these materials due to their large interconnected spaces, which make them permeable.