

STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff

SOLVED PAPER

(5th October 2021: Shift-2)

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 ANTONYM of the given word.
ZEALOUS
1. Eager 2. Indifferent 3. Anxious 4. Annoyed
2. Select the most appropriate option to fill in the blank.
We would be grateful if you _____ let us know what medicine we should take for this ailment.
1. may 2. could 3. should 4. shall
3. Identify the segment in the sentence that contains a grammatical error.
If there had not been such a long queue I could have returned back by 11 am.
1. I could have returned back
2. If there had not been
3. Such a long queue
4. By 11 am
4. Select the most appropriate option to fill in the blank.
This is the ground which is _____ to be the highest cricket ground in the world.
1. cleared 2. considered 3. concealed 4. covered
5. 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 languages he can speak are English, Hindi, Marathi and Kannada.
1. no substitution required 3. can speak is
2. is speaking are 4. will speak are
6. Select the most appropriate one-word substitution for the given words.
A person who compiles dictionaries
1. Cartographer 3. Calligrapher
2. Lexicographer 4. Cryptographer
7. Select the most appropriate option to fill in the blank.
Aparna said she was sorry she had _____ to bring the book I had asked for.
1. forgets 2. forgotten 3. forget 4. forgot
8. Identify the segment in the sentence that contains a grammatical error.
Will you listen me when I tell you the details?
1. will you 3. listen me
2. the details 4. when I tell you
9. Select the most appropriate meaning of the given idiom.
Keep someone in the loop
1. Make them do exercises regularly
2. Save all their numbers
3. Give them all the information
4. Take good care of them
10. Identify the segment in the sentence that contains a grammatical error.
I ordered an online gift for my friend at her birthday.
1. for my friend 3. an online gift
2. at her birthday 4. I ordered
11. Select the most appropriate meaning of the given idiom.
Of the old school
1. School in an old age home
2. School one attended long ago
3. Old fashioned in thought
4. Old dilapidated building
12. Select the most appropriate ANTONYM of the given word.
SLEEK
1. Dull 2. Easy 3. Smooth 4. Flat
13. Select the MISSPELT word.
1. Territory 3. Embroidary
2. Fascination 4. Interrogation
14. Select the MISSPELT word.
1. Clothes 2. Trousers 3. Germent 4. Ironing
15. 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 club are organising a two-day yoga and meditation camp for beginners.
1. is organising 3. can be organising
2. no substitution required 4. will organised
16. Select the most appropriate option to fill in the blank.
Several peoples' homes were badly _____ during the floods.
1. drowned 2. damaged 3. drained 4. deluged

17. Select the most appropriate option to substitute the underlined segment. If no substitution is required, select 'No substitution required'.

Once Birbal was forbidden for attending the king's free lunch.

1. from attending 3. no substitution required
2. in attending 4. to be attending

18. Select the most appropriate one-word substitution for the given words.

Cinema show in the afternoon

1. Screening 2. Movie 3. Matinee 4. Film

19. Select the most appropriate synonym of the given word.

LAX

1. Needy 2. Negligent 3. Careful 4. Deprived

20. Select the most appropriate synonym of the given word.

TENSILE

1. Anxious 2. Stretchable 3. Worried 4. Relaxed

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.

A poet visited Tenali Raman hoping to impress him with some poems he had written. Raman asked (1)_____ to leave the poems with him and promised to read them (2)_____. The man, however, insisted on (3)_____ out the poems to him. As the poet droned (4)_____ Raman fell asleep. When he woke up, the poet asked: "Sir, shall I read the (5)_____ again?"

21. Select the most appropriate option to fill in blank no. 1.

1. them 2. him 3. her 4. his

22. Select the most appropriate option to fill in blank no. 2.

1. later 2. lately 3. after 4. next

23. Select the most appropriate option to fill in blank no. 3.

1. reading 2. rehearsing 3. recounting 4. reciting

24. Select the most appropriate option to fill in blank no. 4.

1. in 2. out 3. on 4. up

25. Select the most appropriate option to fill in blank no. 5.

1. pages 2. rhymes 3. poems 4. verses

General Intelligence and Reasoning

26. Select the number that can replace the question mark (?) in the following series.

117, 98, 80, ?, 47, 32

1. 75 2. 63 3. 55 4. 58

27. Select the figure which will come next in the following series.



1. 3.
2. 4.

28. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

6 12 78
6 15 99
3 13 ?

1. 49 2. 45 3. 54 4. 50

29. In a certain code language, JET is written as TED and MAD is written as WAN. How will CARE be written in the same code language?

1. MADE 2. MALE 3. MABE 4. LKBE

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



1. 3.
2. 4.

31. In a certain code language, SEAT is written as TIJJ. How will TREE be written in the same code language?

1. UVNU 2. VUNU 3. UVNV 4. SVNN

32. Select the option which is related to third term in the same way as the second term is related to the first term.

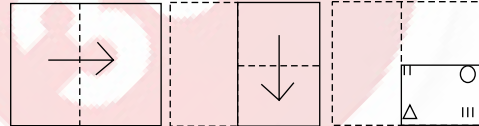
Focus : Distract :: Precise : ?

1. Careless 3. Insufficient
2. Specific 4. Strict

33. Eight students A, B, C, D, E, F, G and H are sitting around a circular table in the same order in anti-clockwise direction, at equal distances from each other. If B is seated in the north-east direction, in which direction is H seated?

1. South-west 3. North-west
2. North-east 4. South-east

34. A paper is folded and cut as shown below. How will it appear when unfolded?

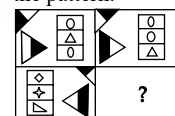


1. 3.
2. 4.

35. In a certain code language, C is coded as 3 and DAM is coded as 6. What will be the code for HENCE in the same language?

1. 7 2. 12 3. 11 4. 5

36. Given below is a pattern out of which a section has been cut. Select the option which when placed correctly will complete the pattern.



1. 3.
2. 4.

37. Select the option that represents the number which is related to the fourth number in the same way as the first number is related to the second number.

$$28 : 145 :: ? : 20$$

1. 19 2. 13 3. 17 4. 20

38. Select the number that can replace the question mark (?) in the following pattern.

5 6 7 8 9

$$115 206 ? 502 719$$

1. 337 2. 347 3. 343 4. 333

39. If the following mathematical signs are changed as given below, then select the option which represents the correct equation.

÷ is changed to +

× is changed to -

+ is changed to ×

- is changed to ÷

1. $26 \times 18 \div 39 + 4 - 111 = 100$

2. $26 + 18 - 39 \times 4 \div 111 = 119$

3. $26 - 18 + 39 \times 4 \div 111 = 203$

4. $26 - 18 + 39 \div 4 \times 111 = 40$

40. In a certain code language, if the code for EXCEL is 44 and the code for WORD is 56, then what will be the code for HEAVEN in the same language?

1. 49 2. 61 3. 55 4. 58

41. Two statements are given followed by two conclusions numbered I and II. Assuming that the information given in the statements is true, even if it appears to be different from commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

1. Some bags are covers.

2. All sheets are covers.

Conclusions:

I. All covers are sheets.

II. Some bags are sheets.

1. Only conclusion I follows

2. Only conclusion II follows

3. Both conclusions I and II follow

4. Neither conclusion I nor II follows.

42. If 'A' stands for 'subtraction', 'B' stands for 'addition', 'C' stands for 'multiplication' and 'D' stands for 'division', then what will be the value of the following equation?

$$96 D 12 A 6 B 3 C 5$$

1. 1158 2. 128 3. 17 4. 7

43. Select the correct option that indicates the arrangement of the followings items of a book in a logical and meaningful order.

1. Preface 2. Content list
3. Chapters 4. Bibliography

5. Cover Page

1. 1, 2, 5, 3, 4 3. 1, 5, 2, 3, 4

2. 2, 1, 5, 3, 4 4. 5, 1, 2, 3, 4

44. Three statements are given followed by three conclusions numbered I, II and III. Assuming that the information given in the statements is true, even if it appears to be different from commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

1. No jungles are trees.

2. Some trees are long.

3. No plants are long.

Conclusions:

I. Some plants are trees.

II. All trees are long.

III. Some jungles are long.

1. None of the conclusions follows

2. Both conclusions I and II follow

3. Only conclusion II follows

4. Both conclusions I and III follow

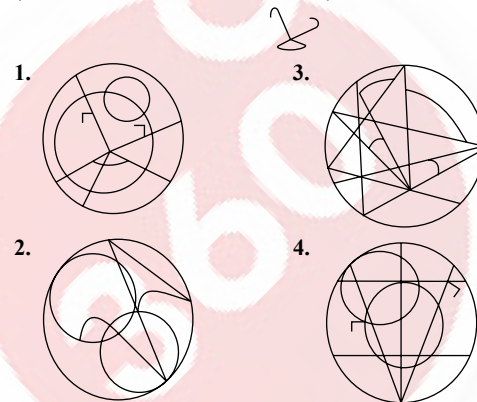
45. Eight friends P, Q, R, S, T, U, V and W are sitting around a rectangular table. R is sitting at the north-west, R and P are placed diagonally opposite each other, whereas V and U are placed diagonally opposite each other. W faces the west direction, Q faces the east direction, and S is sitting between R and V. In which direction does T sit?

1. South 2. East 3. West 4. North

46. Four letter clusters have been given out of which three are alike in same manner while one is different. Select the odd one.

1. DGL 2. FJN 3. ADI 4. EHM

47. Select the option in which the given figure is embedded (ROTATION IS NOT ALLOWED).



48. Select the option which is related to third term in the same way as the second term is related to the first term.

Miniature : Giant :: Particle : ?

1. Sub-atomic 3. Reluctance

2. Whole 4. Dust

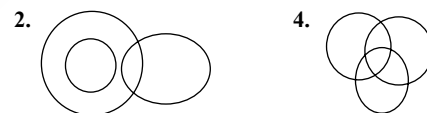
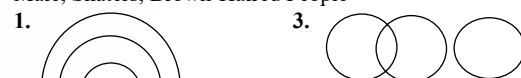
49. Select the option that is related to third term in the same way as the second term is related to the first term.

BOARD : VSELX :: ENJOY : ?

1. IHDS 2. FEDSE 3. HICSD 4. IHEAC

50. Select the Venn diagram that best illustrates the relationship between the following classes.

Male, Skaters, Brown-Haired People

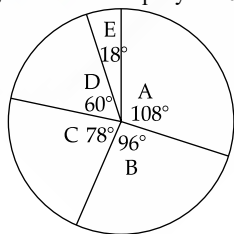


Numerical Aptitude

51. The average of ten numbers is 18.2. The average of the first four numbers is 16.6 and that of the last seven numbers is 20.8. If the 4th number is excluded, then the average of the remaining numbers is (correct to one decimal place):

1. 16.9 2. 15.8 3. 17.2 4. 16.7

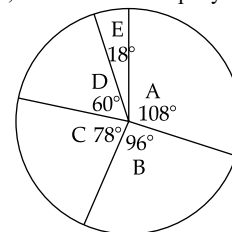
52. The total surface area of a solid right circular cylinder of height 13 cm, is 880 cm². Its volume (in cm³) is 11k. The value of k is: (Take $\pi = \frac{22}{7}$)
1. 208 2. 182 3. 104 4. 91
53. The average of the 2-digit numbers 37, 45, 6x and x6 is 48. What is the average of (4x + 3) and (x + 7)?
1. 12.5 2. 15 3. 17.5 4. 20
54. The ratio of the speeds of A and B is 2 : 5. To cover a certain distance, if A takes 15 minutes more than B, then how much time (in minutes) will B take to cover the same distance?
1. 12 2. 8 3. 30 4. 9
55. A person saves 28% of his income. If his income increases by 20% and the expenditure reduces by 5%, then his savings increase by x%. The value of x is closest to:
1. 72.5 2. 84.3 3. 45.8 4. 54.4
56. When x is subtracted from each of 24, 30, 36 and 46, the numbers so obtained in this order, are in proportion. What is the mean proportional between (2x + 3) and (3x + 2)?
1. 10 2. 12 3. $10\sqrt{3}$ 4. $12\sqrt{3}$
57. A sold an article to b at a loss of 20%, and B sold it to C at a profit of 32%. C sold it to D at a loss of 20%. If A's loss is ₹35 less than that of C, then B bought the article for:
1. ₹2,800 2. ₹2,500 3. ₹2,940 4. ₹2,750
58. There is a rectangular plot, 120 m long and 98 m wide, with semi-circular flower beds along the breadth on both sides of the plot. The cost of putting a fence all around the plot at ₹16.50 per m is: (Take $\pi = \frac{22}{7}$)
1. ₹8,910 2. ₹9,042 3. ₹9,009 4. ₹8,943
59. By selling an article for 820. Abhi loses 18%. To gain 25.5%, he should sell it for:
1. ₹1,260 2. ₹1,275 3. ₹1,255 4. ₹1,250
60. What least number must be subtracted from 2963 so that the resulting number when divided by 9, 10 and 15, the remainder in each case is 5?
1. 41 2. 78 3. 82 4. 39
61. The value of $\frac{3}{8} + \frac{1}{7} \times 1\frac{3}{4} + \left(\frac{2}{3} \div \frac{3}{10} \text{ of } \frac{4}{9}\right) - \left(3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}\right) \times \frac{15}{8}$ is:
1. $5\frac{1}{2}$ 2. $10\frac{1}{2}$ 3. $10\frac{1}{4}$ 4. $5\frac{3}{8}$
62. The compound interest on a certain sum for 2 years at 15% per annum is ₹3,641, when the interest is compounded 8 monthly. The sum is:
1. ₹9,000 2. ₹9,600 3. ₹11,000 4. ₹10,000
63. What is the mean of the median and the mode of the data: 19, 20, 14, 15, 19, 16, 17, 15, 14, 13, 18, 19, 17, 13?
1. 17 2. 18 3. 17.75 4. 17.25
64. Study the given pie chart and answer the question that follows. Distribution (degrees wise) of employees working in offices A, B, C, D and E a company in 2019



Total Number of Employees = 300

The total number of employees in the office C and E is what percentage less than the number of employees in office A?

1. $11\frac{1}{9}$ 2. $12\frac{1}{2}$ 3. $16\frac{2}{3}$ 4. $15\frac{1}{4}$
65. A can do a certain work in 30 days. B is 25% more efficient than A, and C 20% more efficient than B. A and B work together for 10 days. C alone completes the remaining work in x days. The value of x is:
1. 4 2. 8 3. 6 4. 5
66. The value of $6 \times 2 \div 3$ of $12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2$ of 3 is:
1. $\frac{17}{6}$ 2. $\frac{23}{6}$ 3. $\frac{19}{6}$ 4. $\frac{13}{6}$
67. The simple interest on a sum ₹4,800 for $4\frac{1}{2}$ years at a certain rate per annum is ₹1,684.80. What will be the amount of the same sum at the same rate for $6\frac{2}{3}$ years at simple interest?
1. ₹7,096 2. ₹7,084 3. ₹7,296 4. ₹7,298
68. A can do $33\frac{1}{3}\%$ of a work in 10 days, and B can do 20% of the same work in 9 days. They worked together for 8 days. C alone completed 30% of the remaining work in 10 days. A and C together can do the same work in:
1. 18 days 2. 12 days 3. 15 days 4. 20 days
69. Suman divided a certain sum between her three daughters in the ratio 2 : 3 : 4. Had she divided the sum in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$, the daughter who got the least share earlier, would have got ₹3,500 more. The sum was:
1. ₹14,000 2. ₹14,500 3. ₹13,750 4. ₹14,625
70. The marked price of an article is 2,560. During a sale, two successive discounts 20% and x% are offered on it. If the selling price of the article is ₹1,679.36, then the value of x is:
1. 16.5 2. 12.5 3. 15 4. 18
71. A person can row 5 m/sec in still water. The speed of the stream is 6 km/h. The time (in hours) taken by him to row a distance of 76.8 km downstream is:
1. 3.5 2. 2.8 3. 3.2 4. 2.4
72. The value of $48 \div [5 + \{19 - (16 - 16 \div 4 \times 3 \text{ of } 2)\}]$ is:
1. $\frac{3}{4}$ 2. $\frac{3}{2}$ 3. $\frac{2}{3}$ 4. $\frac{1}{2}$
73. Study the given pie chart and answer the question that follows: Distribution (degree wise) of employees working in offices A, B, C, D and E of a company in 2019

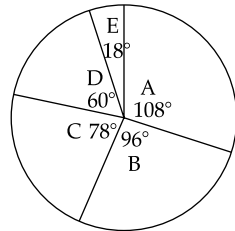


Total Number of Employees = 300

In which office is the number of employees approximately 18% more than the average number of employee offices A, C, D and E?

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

74. The monthly incomes of A and B are in the ratio 2 : 3, and the ratio of their savings is 3 : 4. If the income of A equals the savings of B, then the ratio of the expenditures of A and B is:
1. 1 : 2 2. 4 : 5 3. 2 : 3 4. 3 : 4
75. Study the given pie chart and answer the question that follows:
Distribution (degree wise) of employees working in offices A, B, C, D and E of a company in 2019



Total Number of Employees = 300

In office A, 40% employees are females and 60% employees in office C are males. What is the ratio of the number of male employees in A to that of female employees in C?

1. 15 : 8 2. 9 : 4 3. 27 : 13 4. 18 : 13

General Awareness

76. The _____ plateau is sub-divided into the Garo Hills, the Khasi Hills, and the Jaintia Hills, named after the tribal groups inhabiting the region.
1. Chota Nagpur 3. Malwa
2. Baghelkhand 4. Meghalaya
77. Which of the following is the closest layer to the Earth's surface in which all weather occurs?
1. Mesosphere 3. Ionosphere
2. Troposphere 4. Stratosphere
78. What does Ichthyology deal with?
1. Study of reptiles and amphibians
2. Study of fish
3. Study of birds
4. Study of insects
79. On 22 July 2020, who was nominated as the Vice-Chairman of the International Union of Railways' security platform?
1. Margaret Chan 3. Soumya Swaminathan
2. François Davenne 4. Arun Kumar
80. Who emerged victorious in 'The Siege of Arcot' in 1751 AD?
1. French 3. Portuguese
2. Dutch 4. British
81. As of July 2021 who is the Chief Economist of the International Monetary Fund?
1. Krishna Bhardwaj 3. Gita Gopinath
2. Montek Singh Ahluwalia 4. Raghuram Rajan
82. As per the Budget 2019-20, which among the following is the single largest source of income of the Government of India, contributing 21 paise to each rupee earned?
1. Custom duties 3. Non-tax revenue
2. Service tax 4. Corporation tax
83. Which part of the Constitution of India deals with the duties of citizens?
1. Part IVA 2. Part II 3. Part X 4. Part III
84. 'Thalinomics' was introduced in the Economic Survey for _____.
1. 2017-18 2. 2019-20 3. 2016-17 4. 2018-19
85. Pooja Dhandu won the 2019 Arjuna Award for which sport?
1. Wrestling 2. Boxing 3. Athletics 4. Tennis
86. Which team clinched the 2019-20 the Vijay Hazare Trophy for the fourth time by defeating Tamil Nadu in the final?
1. Jharkhand 2. Mumbai 3. Karnataka 4. Bihar
87. Cheraw Dance is a traditional dance form of which state?
1. Assam 3. Sikkim
2. Mizoram 4. Arunachal Pradesh
88. Which is the smallest bone in the human body?
1. Stapes 2. Phalanges 3. Humerus 4. Pelvis
89. In which year was the partition of Bengal carried out by the British Viceroy Lord Curzon?
1. 1905 2. 1901 3. 1907 4. 1911
90. In which year was the National Archives of India established?
1. 1840 2. 1830 3. 1891 4. 1835
91. Which of the following is the third highest mountain in the world?
1. Everest 3. K2
2. Kanchenjunga 4. Annapurna
92. Which of the following is NOT a type of blood cell made by the bone marrow?
1. Osteoclasts 3. Platelets
2. Red blood cells 4. White blood cells
93. Which among the following instruments is used to measure either direct or alternating electric current?
1. Wattmeter 3. Ammeter
2. Hygrometer 4. Pyrometer
94. What is the loss of bone density and strength known as?
1. Osteoporosis 3. Fibrous dysplasia
2. Acromegaly 4. Fracture
95. On 22nd July 2020, actor Sonu Sood launched the _____ app to find jobs and offer specific job training programmes.
1. Pravasi Rojgar 3. Grahmin Rojgar
2. Sabka Rojgar 4. Pravasi Atmanirbhar
96. What does Article 32 of the Indian Constitution deal with?
1. Right to Life
2. Right to Property
3. Right to Constitutional Remedies
4. Financial Emergency
97. Litti Chokha is a famous cuisine of which of the following states?
1. Maharashtra 2. Bihar 3. Gujarat 4. Odisha
98. Who is the author of the book 'Shame'?
1. Salman Rushdie 3. Rudyard Kipling
2. Charles Dickens 4. Eric Segal
99. _____ is caused when a child's growing bones fail to develop due to a lack of vitamin D.
1. Night blindness 3. Goitre
2. Rickets 4. Scurvy
100. Ovi, a typical folk song which is made up of couplets describing women's maternal and marital homes and is sung by village womenfolk while performing routine chores throughout the day, belongs to which state?
1. Mizoram 3. Assam
2. Goa 4. Maharashtra

Answer Key

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

Answers with Explanations

1. **Option (2) is correct.**
'Zealous' means 'showing great energy'. 'Indifferent' (lack of energy/passive) is the opposite.
2. **Option (2) is correct.**
We would be grateful if you could let us know what medicine we should take for this ailment. 'May' is used to ask for permission. Could is used for possibilities, requests and suggestions. Should indicates something probable.
3. **Option (1) is correct.**
If there had not been such a long queue I could have returned by 11 am. 'Return' already means 'come back', so there is no need of repeating 'back.' The usage is superfluous.
4. **Option (2) is correct.**
This is the ground which is considered to be the highest cricket ground in the world. Considered means decided after a lot of thought. Other verbs cannot justify the blank.
5. **Option (1) is correct.**
The languages he can speak are English, Hindi, Marathi and Kannada. No substitution required.
6. **Option (2) is correct.**
A Lexicographer studies words and compiles the results into a dictionary. Cartographer is a person who draws or produces maps. Calligrapher is a professional copyist or engrosser. A cryptographer is someone who writes (or cracks) the encryption code used for data security.
7. **Option (2) is correct.**
Aparna said she was sorry she had forgotten to bring the book I had asked for. With the past perfect form of verb, a past participle (forgotten) is used.
8. **Option (3) is correct.**
Will you listen to me when I tell you the details? 'listen to me' will replace 'listen me'. The preposition 'to' is used after certain verbs to indicate the person/thing that receives the object of the verb.
9. **Option (3) is correct.**
Being kept in the loop is asking someone to keep you informed about what is happening. Example: I will not be present in the meeting tomorrow, so keep me in the loop.
10. **Option (2) is correct.**
I ordered an online gift for my friend for her birthday. The preposition 'for' is used to indicate reason, purpose and duration of time. In the given sentence, the reason is given, so 'for' will replace the use of 'at' (used for a specific point).
11. **Option (3) is correct.**
'Of the old school' means 'traditional and old-fashioned'. So 'old fashioned in thought' is correct.
12. **Option (1) is correct.**
'Sleek' means 'smooth and glossy.' So the antonym is 'dull'.
13. **Option (3) is correct.**
'Embroidary' has the wrong spelling. It is spelled as 'Embroidery'.
14. **Option (3) is correct.**
'Germent' has the wrong spelling. It is spelled as 'Garment'.
15. **Option (1) is correct.**
The club is organising a two-day yoga and meditation camp for beginners. Here, 'is organising' will replace 'are organising', because the subject is in singular noun (club), so it will take a singular verb (is).
16. **Option (2) is correct.**
Several peoples' homes were badly damaged during the floods. 'Damaged' means to spoil or get harmed. Drowned means to die by being under water and unable to breathe. Deluged means inundated with a great quantity of something; drained means to 'cause the water or other liquid in (something) to run out'.
17. **Option (1) is correct.**
Once Birbal was forbidden from attending the king's free lunch. 'From' will replace 'for'. 'From' is used for place and origin. While 'for' is used for purpose.
18. **Option (3) is correct.**
'Screening' means 'a showing of a film, video, or television programme.' 'Matinee' means cinema show in the afternoon. Matinee.
19. **Option (2) is correct.**
Lax means 'relaxed'. So 'negligent' is the most appropriate synonym. 'Careful' is the antonym.
20. **Option (2) is correct.**
Tensile means 'capable of being drawn out or stretched'. So 'stretchable' is the most appropriate synonym.
21. **Option (2) is correct.**
Ramana asked him to leave the poems with him and promised to read them. Since the poet who had visited Tenali Raman is a male ('he had written'), therefore, the pronoun will be 'him', in objective case, as an object to the verb 'asked'. So, option (2) is correct.
22. **Option (1) is correct.**
Ramana asked him to leave the poems with him and promised to read them later. 'Later' is the comparative form of late. While 'lately' means 'recently'. But the context affirms that Raman wanted to read the poems afterwards.
23. **Option (1) is correct.**
Raman, however, insisted on reading out the poems to him. Rehearsing means practicing; recounting is narrating. Reciting is to say a piece of writing aloud from memory. All of these verbs are eliminated. So 'reading' is correct.

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

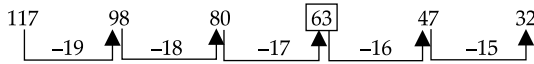
As the poet droned on, Raman fell asleep. The phrasal verb 'droned on' implies to talk for a long time in a boring way. The passage clarifies that the reason for Raman falling asleep was the lengthy act of reading out of the poems.

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

When he woke up, the poet asked: "Sir, shall I read the poems again?" The answer is obvious as 'poems', because the poet had been reading out his poems to Raman. Verse is a writing arranged with a metrical rhythm, typically having a rhyme.

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

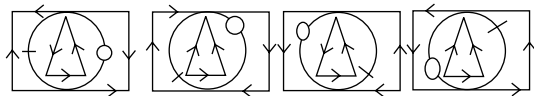
Given series:
117, 98, 80, ?, 47, 32
The pattern is as follows:



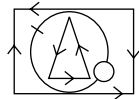
Hence, 63 is the correct answer.

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

Given figure:



Logic: Follow the sequence and the pattern. Hence,



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

Given that:
6 12 78
6 15 99
3 13 ?

The pattern followed here is:

Rowwise: 3rd number = (1st number × 2nd number) + (2nd number - 1st number)

Now, row 3:

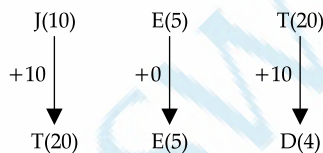
$$\Rightarrow (3 \times 13) + (13 - 3) \Rightarrow 3 \times 13 + 10$$

$$\Rightarrow 39 + 10 = 49$$

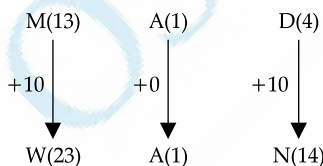
29. **Option (3) is correct.**

Given that:

JET is written as TED

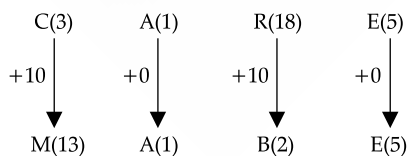


and MAD is written as WAN.



Similarly,

CARE can be written as:

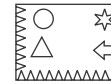


30. **Option (3) is correct.**

Given figure:



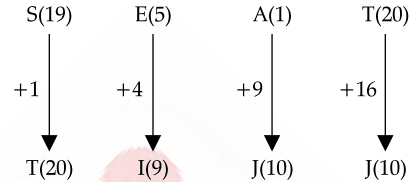
Follow the pattern and the sequence:



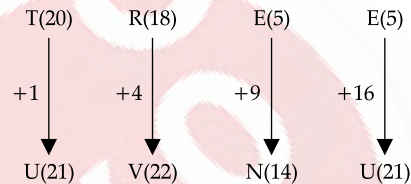
31. **Option (1) is correct.**

Given that:

SEAT is written as TIJJ.



TREE can be written as:



Hence, TREE will be coded as "UVNU".

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

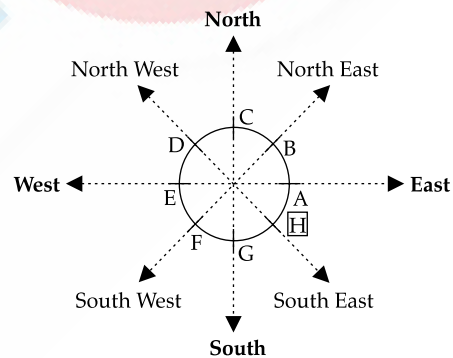
Given that:

Focus : Distract :: Precise : ?

Focus is the antonym of distract. Similarly, Precise is the antonym of careless.

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

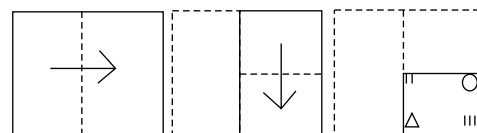
According to the question, following arrangement can be made.



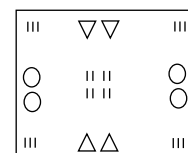
Hence, H will sit in the south-east direction.

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

Given figure:



Follow the symmetry and pattern



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

Point to remember:

Alphabets	Positional value	Alphabets	Positional value
A	1	N	14
B	2	O	15
C	3	P	16
D	4	Q	17
E	5	R	18
F	6	S	19
G	7	T	20
H	8	U	21
I	9	V	22
J	10	W	23
K	11	X	24
L	12	Y	25
M	13	Z	26

Given that:

C is coded as 3 and DAM is coded as 6.

The pattern followed here is:

The sum of positional values of letters ÷ Number of letters

So, C will be coded as $\frac{3}{1} = 3$

And,

DAM is coded as $\frac{18}{3} = 6$

Similarly,

the code for HENCE will be:

H	E	N	C	E
8	5	14	3	5

The total number of letters in HENCE is 5

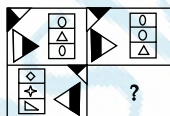
$8 + 5 + 14 + 3 + 5 = 35$

$\Rightarrow \frac{35}{5} = 7$

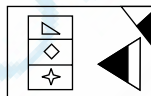
Hence, HENCE will be coded as 7.

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

Given figure:



Follow the symmetry and pattern.



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

Given that:

$28 : 145 :: ? : 100$

The pattern followed here is:

$(2^{\text{nd}} \text{ term} \div 5) - 1 = 1^{\text{st}} \text{ term.}$

So, for $28 : 145$

$\Rightarrow 145 \div 5 = 29$

$\Rightarrow 29 - 1 = 28$

Similarly,

For $? : 100$

$\Rightarrow 100 \div 5 = 20$

$\Rightarrow 20 - 1 = 19$

Hence, 19 is the correct answer.

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

Given that:

$5 \quad 6 \quad 7 \quad 8 \quad 9$
 $115 \quad 206 \quad ? \quad 502 \quad 719$

The pattern followed here is: Columnwise:

$(1^{\text{st}} \text{ number})^3 - 10 = 2^{\text{nd}} \text{ number}$

So,

Column 1

$\Rightarrow (5)^3 - 10 = 125 - 10 = 115$

Similarly,

Column 3

$\Rightarrow (7)^3 - 10 = 343 - 10 = 333$

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

Given that:

÷ is changed to +

× is changed to -

+ is changed to -

- is changed to ÷

Upon checking option 2,

$26 + 18 - 39 \times 4 \div 111 = 119$

After interchanging the signs, we get

$26 \times 18 \div 39 - 4 + 111 = 119$

Using BODMAS Rule,

$26 \times 18 \div 39 - 4 + 111 = 119$

$\Rightarrow 26 \times 0.461 - 4 + 111 = 119$

$\Rightarrow 12 - 4 + 111 = 119$

$\Rightarrow 123 - 4 = 119$

$\Rightarrow 119 = 119$

Hence, it is the correct option.

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

Points to remember:

Alphabets	Positional value	Alphabets	Positional value
A	1	N	14
B	2	O	15
C	3	P	16
D	4	Q	17
E	5	R	18
F	6	S	19
G	7	T	20
H	8	U	21
I	9	V	22
J	10	W	23
K	11	X	24
L	12	Y	25
M	13	Z	26

The pattern followed here is:

Sum of positional values of letters - number of letters

Now,

the code for EXCEL is 44

Total number of letters in EXCEL is 5

E	X	C	E	L
5	24	3	5	12

$$5 + 24 + 3 + 5 + 12 = 49$$

$$\Rightarrow 49 - 5 = 44$$

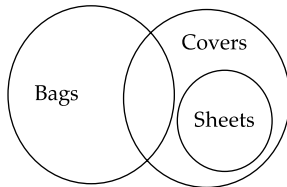
Similarly,
the code for HEAVEN will be :-

H	E	A	V	E	N
8	5	1	22	5	14

Total number of letters in HEAVEN is 6
 $8 + 5 + 1 + 22 + 5 + 14 = 55$
 $55 - 6 = 49$

41. Option (4) is correct.

As per the given statements, following venn diagram can be made:



- I. All covers are sheets---False (It is possible but not definite)
- II. Some bags are sheets---False (It is possible but not definite)

Hence, neither conclusion I nor II follows.

42. Option (3) is correct.

Given that:
 96 D 12 A 6 B 3 C 5
 'A' stands for 'subtraction', 'B' stands for 'addition', 'C' stands for 'multiplication' and 'D' stands for 'division',
 Hence,
 $\Rightarrow 96 \div 12 - 6 + 3 \times 5$
 $\Rightarrow 8 - 6 + 3 \times 5$
 $\Rightarrow 8 - 6 + 15$
 $\Rightarrow 23 - 6 = 17$

43. Option (4) is correct.

The correct order is as follows:

5. Cover Page	1. Preface	2. Content list	3. Chapters	4. Bibliography
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44. Option (1) is correct.

As per the given statements, following venn diagram can be made.

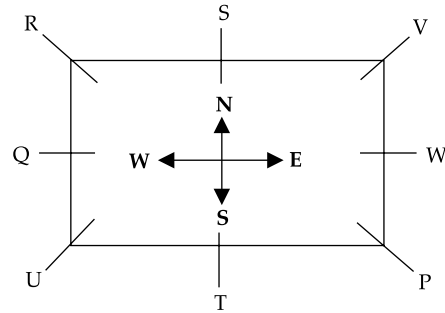


- I. Some plants are trees. ----- False (There is no direct relation given between plants and trees, so it is possible but not definite).
- II. All trees are long.-----False (It is possible but not definite)
- III. Some jungles are long.----- False (It is possible but not definite)

Hence, none of the conclusions follows.

45. Option (1) is correct.

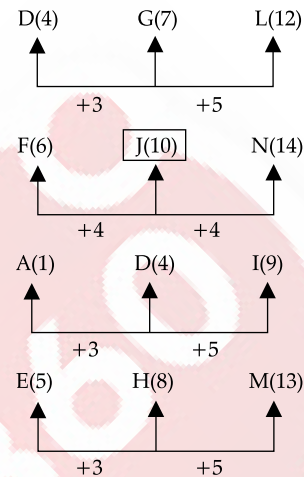
According to question, following arrangement can be made.



Hence, T sits in the South direction.

46. Option (2) is correct.

The pattern followed here is:



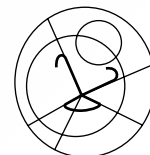
Hence, FJN is the odd one out.

47. Option (1) is correct.

Given image:



The embedded figure is highlighted in the figure of option 1 below:



48. Option (2) is correct.

Given pairs:

Miniature : Giant :: Particle : ?

Giant is the antonym of miniature

Similarly,

Whole is the antonym of particle.

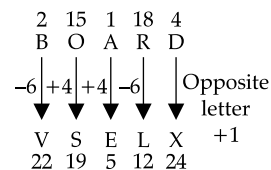
Hence, WHOLE is the correct answer.

49. Option (1) is correct.

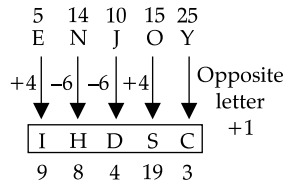
Given pairs:

BOARD : VSELX :: ENJOY : ?

The pattern followed here is:



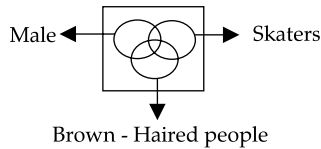
Similarly,



Hence, IHDS C is the correct option.

50. Option (4) is correct.

Given terms: Male, Skaters, Brown-Haired people.
The best representation of the above terms will be:



51. Option (1) is correct.

Sum of ten numbers = $10 \times 18.2 = 182$

Sum of first four numbers = $4 \times 16.6 = 66.4$

Sum of last seven numbers = $7 \times 20.8 = 145.6$

4th number = $66.4 + 145.6 - 182 = 30$

Average of nine numbers (excluded 4th number) = $\frac{182 - 30}{9}$

$$= \frac{152}{9} = 16.9$$

52. Option (2) is correct.

Total surface area = $2\pi r(r+h)$

$$880 = 2 \times \frac{22}{7} \times r(r+13)$$

$$140 = r(r+13)$$

$$7(7+13) = r(r+13)$$

∴

Volume of cylinder = $\pi r^2 h$

$$= \frac{22}{7} \times 49 \times 13$$

$$= 22 \times 7 \times 13$$

$$= 11 \times 2 \times 7 \times 13$$

$$= 11 \times 182 = 11 \times K$$

⇒

$$K = 182$$

53. Option (2) is correct.

$$\text{Average} = \frac{37 + 45 + 6x + x6}{4} = 48$$

$$\Rightarrow 6x + x6 = 192 - 82$$

$$\Rightarrow 60 + x + 10x + 6 = 110$$

$$\Rightarrow 11x + 66 = 110$$

$$\Rightarrow x = \frac{110 - 66}{11} = 4$$

Now, average of $4x + 3$ and $x + 7$

$$= \frac{4x + 3 + x + 7}{2} = \frac{5x + 10}{2}$$

$$= \frac{5 \times 4 + 10}{2} = \frac{30}{2} = 15$$

54. Option (3) is correct.

Let speeds of A is $2x$ and B is $5x$

Distance = y m

According to the question

$$\frac{y}{2x} - \frac{y}{3x} = 15$$

$$\frac{y}{6x} = 15 \Rightarrow \frac{y}{x} = 90$$

$$\therefore \text{Time taken by B} = \frac{y}{3x} = \frac{1}{3} \times 90 = 30 \text{ min.}$$

55. Option (2) is correct.

Let Income be ₹ 100

Saving = ₹ 28

Expenditure = ₹ 72

New income = $100 + 20 = ₹ 120$

$$\text{New expenditure} = 72 \left(1 - \frac{5}{100}\right) = ₹ 68.4$$

New saving = $120 - 68.4 = ₹ 51.6$

Percentage of increase in saving

$$x\% = \frac{51.6 - 28}{28} \times 100 = 84.3\%$$

56. Option (3) is correct.

According to the question

$$\frac{24 - x}{30 - x} = \frac{36 - x}{46 - x}$$

$$\Rightarrow (24 - x)(46 - x) = (36 - x)(30 - x)$$

$$\Rightarrow 1104 - 70x + x^2 = 1080 - 66x + x^2$$

$$\Rightarrow 4x = 24, x = 6$$

Mean proportional between $(2x + 3)$ and $(3x + 2)$

$$= \sqrt{(2x + 3)(3x + 2)}$$

$$= \sqrt{(2(6) + 3)(3(6) + 2)} = \sqrt{15} \times 20$$

$$= \sqrt{300} = 10\sqrt{3}$$

57. Option (2) is correct.

Let cost price of A is ₹ x

$$\therefore \text{S.P. of A} = \text{C.P. of B} = x \left(1 - \frac{20}{100}\right) = \frac{4x}{5}$$

$$\text{S.P. of B} = \text{C.P. of C} = \frac{4x}{5} \left(1 + \frac{32}{100}\right) = \frac{132x}{125}$$

$$\text{S.P. of C} = \text{C.P. of D} = \frac{132x}{125} \left(1 - \frac{20}{100}\right) = \frac{528x}{625}$$

According to the question

$$\left(\frac{132x}{125} - \frac{528x}{625}\right) - \left(x - \frac{4x}{5}\right) = 35$$

$$\Rightarrow \frac{132x}{125} - \frac{x}{5} = 35$$

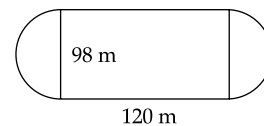
$$\Rightarrow \frac{7x}{625} = 35$$

$$\Rightarrow x = \frac{35 \times 625}{7} = 5 \times 625$$

$$\text{Cost price of B} = \frac{4}{5}x = \frac{4}{5} \times 5 \times 625$$

$$= ₹ 2500$$

58. Option (2) is correct.



Perimeter of plot

$$\begin{aligned} &= 2 \times \frac{1}{2} \times 2\pi r + 2l \\ &= 2 \times \frac{22}{7} \times \frac{98}{2} + 2 \times 120 \\ &= 22 \times 14 + 240 = 308 + 240 \\ &= 548 \end{aligned}$$

$$\begin{aligned} \text{Cost of fence} &= ₹ 16.50 \times 548 \\ &= ₹ 9042 \end{aligned}$$

59. Option (3) is correct.

$$\begin{aligned} \text{C.P} &= \frac{\text{S.P} \times 100}{100 - \text{Loss \%}} = \frac{820 - 100}{100 - 18} \\ &= \frac{820 \times 100}{82} = ₹ 1000 \end{aligned}$$

$$\begin{aligned} \text{S.P} &= \text{C.P} \left(\frac{100 + \text{Gain \%}}{100} \right) \\ &= 1000 \times \frac{(100 + 25.5)}{100} = ₹ 1255 \end{aligned}$$

60. Option (2) is correct.

L.C.M of 9, 10 and 15 = 90

When divides the number 2963 gives remainder
= $32 \times 90 + 83$

Required number = $83 - 5 = 78$.

61. Option (4) is correct.

$$\begin{aligned} &\frac{3}{8} + \frac{1}{7} \times 1\frac{3}{4} + \left(\frac{2}{3} \div \frac{3}{10} \text{ of } \frac{4}{9} \right) - \left(3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3} \right) \times \frac{15}{8} \\ &= \frac{3}{8} + \frac{1}{7} \times \frac{7}{4} + \left(\frac{2}{3} \div \frac{3}{15} \right) - \left(\frac{16}{5} \div \frac{9}{2} \text{ of } \frac{16}{3} \right) \times \frac{15}{8} \\ &= \frac{3}{8} + \frac{1}{4} + \left(\frac{2}{3} \times \frac{15}{2} \right) - \left(\frac{16}{5} \div 24 \right) \times \frac{15}{8} \\ &= \frac{5}{8} + 5 - \frac{2}{15} \times \frac{15}{8} = \frac{5}{8} + 5 - \frac{1}{4} \\ &= \frac{5 + 40 - 2}{8} = \frac{43}{8} = 5\frac{3}{8} \end{aligned}$$

62. Option (3) is correct.

$$\text{C.I} = P \left[\left(1 + \frac{r}{100} \right)^n - 1 \right]$$

$$\text{where, C.I} = ₹ 3641, R = \frac{2 \times 12}{8} = 3$$

$$R = \frac{15 \times 8}{12} = 10\%$$

$$3641 = P \left[\left(1 + \frac{10}{100} \right)^3 - 1 \right]$$

$$= P \left[\left(\frac{11}{10} \right)^3 - 1 \right]$$

$$= P \left[\frac{1331}{1000} - 1 \right] = \frac{331P}{1000}$$

$$\therefore P = \frac{3641 \times 1000}{331} = ₹ 11000$$

63. Option (3) is correct.

Given data are

13, 13, 14, 14, 15, 15, 16, 17, 17, 18, 19, 19, 19, 20

Number of observation = 14

$$\text{Median} = \frac{\left(\frac{N}{2} \right)^{\text{th}} + \left(\frac{N}{2} + 1 \right)^{\text{th}}}{2}$$

$$= \frac{7^{\text{th}} \text{ obs.} + 8^{\text{th}} \text{ obs.}}{2}$$

$$= \frac{16 + 17}{2} = 16.5$$

Mode (Maximum repetition) = 19

Mean of median and mode

$$= \frac{16.5 + 19}{2} = 17.75$$

64. Option (1) is correct.

Number of employees in office A

$$= \frac{108}{360} \times 300 = 90$$

Number of employees in office C

$$= \frac{78}{360} \times 300$$

$$= 65$$

Number of employees in office E

$$= \frac{18}{360} \times 300$$

$$= 15$$

$$\text{Required percentage} = \frac{90 - (65 + 15)}{90} \times 100$$

$$= \frac{90 - 80}{90} \times 100 = \frac{100}{9} = 11\frac{1}{9}\%$$

65. Option (4) is correct.

Let the efficiency of A is 100

then efficiency of B is 125

and efficiency of C is 150

\therefore Ratio of efficiency of A, B and C is 100 : 125 : 150

$$= 4 : 5 : 6$$

Total work = $4 \times 30 = 120$ units.

Work done by A and B in 10 days

$$= (4 + 5) \times 10 = 90$$

Remaining work = $120 - 90 = 30$ units

$$\text{Number of days for C} = \frac{30}{6} = 5 \text{ days.}$$

66. Option (2) is correct.

$$6 \times 2 \div 3 \text{ of } 12 - 3 \div 2 \times (2 - 3) \times 2 + 3 \div 2 \text{ of } 3$$

$$= 6 \times 2 \div 36 - \frac{3}{2} \times (-1) \times 2 + 3 \div 6$$

$$= 6 \times 2 \times \frac{1}{36} + 3 + 3 \times \frac{1}{6}$$

$$= \frac{1}{3} + 3 + \frac{1}{2} = \frac{2 + 18 + 3}{6} = \frac{23}{6}$$

67. Option (3) is correct.

$$\text{S.I} = \frac{\text{PRT}}{100} \Rightarrow 1684.80 = \frac{4800 \times 9 \times R}{2 \times 100}$$

$$R = 7.8\%$$

For $6\frac{2}{3}$ years

$$\text{Amount} = 4800 + \frac{4800 \times 20 \times 78}{3 \times 100}$$

$$= 4800 + 2496$$

$$= ₹ 7296$$

68. Option (4) is correct.

Let the total work is 1 unit.

$$\therefore \text{Time taken by A to do 100\% of the work}$$

$$= \frac{10 \times 3 \times 100}{100} = 30 \text{ days}$$

$$\text{Time taken by B + 0 do 100\% of the work}$$

$$= \frac{9 \times 100}{20} = 45 \text{ days}$$

$$\text{Work done by A in 8 days} = \frac{8}{30}$$

$$\text{Work done by B in 8 days} = \frac{8}{45}$$

$$\text{Remaining work} = \left(1 - \frac{8}{30} - \frac{8}{45}\right)$$

$$= \frac{90 - 24 - 16}{90} = \frac{50}{90} = \frac{5}{9}$$

$$30\% \text{ of remaining work}$$

$$= \frac{5}{9} \times \frac{30}{100} = \frac{1}{6}$$

$$\text{Time taken by C to do 100\% work}$$

$$= \frac{6 \times 100}{10} = 60 \text{ days}$$

$$\text{Together A and C work in}$$

$$= \frac{1}{\frac{1}{30} + \frac{1}{60}} = \frac{60}{2+1} = 20 \text{ days.}$$

69. Option (4) is correct.

Ratio of share = 2 : 3 : 4

$$\text{Least share} = \frac{2}{9}$$

$$\text{New ratio of share} = \frac{1}{2} : \frac{1}{3} : \frac{1}{4}$$

$$= \frac{12}{2} : \frac{12}{3} : \frac{12}{4} = 6 : 4 : 3$$

$$\therefore \text{Share of first daughter} = \frac{6}{13}$$

Let sum be ₹x

According to question,

$$\left(\frac{6}{13} - \frac{2}{9}\right)x = 3500$$

$$\frac{54 - 26}{117}x = 3500$$

$$x = \frac{3500 \times 117}{28} = 14625$$

$$\therefore \text{Sum} = ₹ 14625$$

70. Option (4) is correct.

According to question,

$$2560 \left(1 - \frac{20}{100}\right) \left(1 - \frac{x}{100}\right) = 1679.36$$

$$\Rightarrow 2560 \left(\frac{4}{5}\right) \left(1 - \frac{x}{100}\right) = 1679.36$$

$$\Rightarrow 1 - \frac{x}{100} = \frac{1679.36 \times 5}{4 \times 2560}$$

$$= 0.82$$

$$\Rightarrow \frac{x}{100} = 1 - 0.82 = 0.18$$

$$\Rightarrow x = 18$$

71. Option (3) is correct.

Speed in downstream

$$= 6 + \frac{5 \times 60 \times 60}{1000}$$

$$= 6 + 18 = 24 \text{ km/h}$$

Distance = 76.8 km

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}} = \frac{76.8}{24} = 3.2 \text{ h}$$

72. Option (2) is correct.

$$48 \div [5 + \{19 - (16 - 16 \div 4 \times 3 \text{ of } 2)\}]$$

$$= 48 \div \left[5 + \left\{19 - \left(16 - 16 \times \frac{1}{4} \times 6\right)\right\}\right]$$

$$= 48 \div [5 + \{19 - (16 - 24)\}]$$

$$= 48 \div [5 + \{19 + 8\}]$$

$$= 48 \div 32 = \frac{48}{32} = \frac{3}{2}$$

73. Option (4) is correct.

Number of employees in office A

$$= \frac{108}{360} \times 300 = 90$$

Number of employees in office C

$$= \frac{78}{360} \times 300 = 65$$

Number of employees in office D

$$= \frac{60}{360} \times 300 = 50$$

Number of employees in office E

$$= \frac{18}{360} \times 300 = 15$$

Average of A, C, D and E

$$= \frac{90 + 65 + 50 + 15}{4}$$

$$= \frac{220}{4} = 55$$

18 more than average

$$= 55 \left(1 + \frac{18}{100}\right)$$

$$= 55 \times \frac{59}{50} = 64.9 \approx 65$$

= Number of employees in office C

74. Option (1) is correct.Let income of A and B are $2x$ and $3x$ and their savings are $3y$ and $4y$ respectively

According to question,

Income of A = Savings of B

$$2x = 4y \Rightarrow \frac{x}{y} = 2$$

...(i)

Ratio of expenditures of A and B

$$\begin{aligned} &= \frac{2x - 3y}{3x - 4y} = \frac{2\left(\frac{x}{y}\right) - 3}{3\left(\frac{x}{y}\right) - 4} \\ &= \frac{2(2) - 3}{3(2) - 4} \quad \text{[from (i)]} \\ &= \frac{4 - 3}{6 - 4} = \frac{1}{2} = 1 : 2 \end{aligned}$$

75. Option (3) is correct.

Number of employees in office A

$$= \frac{108}{360} \times 300 = 90$$

$$\text{Number of females} = 90 \times \frac{40}{100} = 36$$

$$\text{Number of males} = 90 - 36 = 54$$

Number of employees in office C

$$= \frac{78}{360} \times 300 = 65$$

$$\text{Number of males} = 65 \times \frac{60}{100} = 39$$

$$\text{Number of females} = 65 - 39 = 26$$

$$\text{Required ratio} = \frac{54}{26} = 27 : 13$$

76. Option (4) is correct.

The Meghalaya plateau is sub-divided into the Garo Hills, the Khasi Hills, and the Jaintia Hills, named after the tribal groups inhabiting the region. The Khasi Hills are part of the Garo-Khasi-Jaintia range and connects with the Purvanchal Range and larger Patkai Range further east. It is one of the rainiest, most tectonically active areas in the world.

77. Option (2) is correct.

The troposphere is the lowest layer of the atmosphere of the Earth. It is the closest layer to the Earth's surface which has all weather on the Earth. Troposphere means 'region of mixing', it is named so because of the vigorous convective air within the layer. It contains 75% of the total mass of the planetary atmosphere and 99% of the total mass of water vapor and aerosols, and is where most weather phenomena occur.

78. Option (2) is correct.

Ichthyology is the study of fishes, and ichthyologists are the scientists who study ichthyology. It is the branch of zoology which deals with the study of fish, including bony fish, cartilaginous fish, and jawless fish. Ichthyology is important because people need fishes for food.

79. Option (4) is correct.

Shri Arun Kumar, DG/RPF was nominated as the Vice-Chairman of the International Union of Railways' security platform from July 2020 to July 2022. Union international des chemins de fer (UIC) or International Union of Railways (UIC) represents the railway sector and promotes rail transport worldwide. The UIC Security Platform is empowered to develop and formulate analysis and policy positions on behalf of the rail sector in matters relating to security of persons, property and installations.

80. Option (4) is correct.

The English East India Company (British) emerged victorious in 'The Siege of Arcot' in 31 August 1751 AD. It was led by Robert Clive and forces of Nawab of the Carnatic, Chanda

Sahib, assisted by a small number of troops from the French East India Company.

81. Option (3) is correct.

Gita Gopinath is an Indian-American economist who has served as the Chief Economist of the International Monetary Fund as of July 2021. She was the Director of IMF's Research Department and the Economic Counsellor of the Fund. She is also the second Indian to feature on IMF's 'wall of former chief economists' after Raghuram Rajan.

82. Option (4) is correct.

According to the Budget for 2019-20, Corporation tax is the single largest source of income of the Government of India, contributing 21 paise to each rupee earned. It is a type of direct tax levied on the income or capital of corporations and other similar legal entities. The corporate tax cut of September 2019 – from a base rate of 30% to 22% for existing firms without exemptions/incentives and from 18% to 15% for new manufacturing units.

83. Option (1) is correct.

The Fundamental Duties are dealt with Article 51A under Part-IV A of the Indian Constitution. These are the moral responsibilities of the citizens of India to help promote a patriotic spirit and to uphold the unity of our country. It shall be the duty of every citizen of India to abide by the Constitution and respect its ideals and institutions, the national flag and the national anthem.

84. Option (2) is correct.

The Seventh Economic Census is being conducted by Ministry of Statistics and Programme Implementation in 2019. 'Thalinomics' was introduced in the Economic Survey for 2019-20 to relate economics to a plate of food. It is an attempt to figure out how much a meal costs in India. The Centre used the ubiquitous 'thali' to convey the trends in prices of food and beverages to the common man.

85. Option (1) is correct.

Pooja Dhanda won the 2019 Arjuna Award for Wrestling. She is an Indian wrestler from Budana village of Hisar district in Haryana who participates in 57 kg women wrestling events. She won Silver medals at 2010 Summer Youth Olympics and 2018 Commonwealth Games at Gold Coast in 60 kg and 57 kg category respectively.

86. Option (3) is correct.

The team of Karnataka clinched the 2019-20 the Vijay Hazare Trophy for the fourth time by defeating Tamil Nadu by 9 wickets in the final. Karnataka won a rain-affected final, beating Tamil Nadu by 60 runs, with Abhimanyu Mithun taking a hat-trick.

87. Option (2) is correct.

Cheraw dance is a traditional cultural dance performed in Mizoram. It is a very old traditional dance of the Mizos which is characterized by the use of bamboo staves which are kept in cross and horizontal forms on the ground. In the ancient time, Cheraw dance was performed in rituals as believed, to provide solace to the soul of a deceased mother who had passed on leaving her newborn child on earth.

88. Option (1) is correct.

The Stapes is like a horseshoe-shaped bone that acts as a tuning fork. It is the smallest bone in the human body which is also known as stirrup. This delicate bone works with two others in the ear to send sound vibrations into the inner ear. The size of the staples is 3mm × 2.5 mm.

89. Option (1) is correct.

In the year 1905, the partition of Bengal carried out by the British Viceroy Lord Curzon. The first Partition of

Bengal (1905) was a territorial reorganization of the Bengal Presidency implemented by the authorities of the British Raj. It began a transformation of the Indian National Congress from a middle-class pressure group into a nationwide mass movement. The plan was to carve out modern-day Bangladesh and Assam as East Bengal and make Dhaka as the new capital.

- 90. Option (3) is correct.**
In the year 1891, the National Archives of India was established at Kolkata as the Imperial Record Department; it is the biggest archival repository in South Asia. It is a repository of the non-current records of the Government of India and holds them in trust for the use of administrators and scholars. The National Archives of India can have a significant vision, which is to help in spreading a sense of pride for one's nation.
- 91. Option (2) is correct.**
Kanchenjunga is the third highest mountain in the world with an elevation of 28,169 feet. There are four climbing routes to reach the summit of Kanchenjunga, three of which are in Nepal from the southwest, northwest, and northeast, and one from northeastern Sikkim in India. The composition of Kanchenjunga Mountain is mainly the rocks dated from the Neoproterozoic.
- 92. Option (1) is correct.**
From the given options, only Osteoclasts is not a type of blood cell made by the bone marrow. Osteoclasts are the cells that degrade bone to initiate normal bone remodeling and mediate bone loss in pathologic conditions by increasing their resorptive activity. Platelets are made in our bone marrow, the sponge-like tissue inside our bones. Bone marrow contains stem cells that develop into red blood cells, white blood cells, and platelets.
- 93. Option (3) is correct.**
An ammeter is an instrument used to measure the current in a circuit. It is used to measure either direct or alternating electric current. The unit of the current is ampere. So this device measures the current flow in ampere is named as an ammeter or ampere meter. In the year 1884, Friedrich Drexler has invented the first ammeter like moving-iron meter.
- 94. Option (1) is correct.**
Loss of bone density and strength is known as osteoporosis. It is a bone disease that develops when bone mineral density and bone mass decreases. It typically affects people over age 50, and is much less common in young adults. However, there are some risk factors that can make someone more likely to develop osteoporosis at an earlier age.
- 95. Option (1) is correct.**
Sonu Sood is an Indian actor and film producer who launched the Pravasi Rojgar app to find jobs and offer specific job training programmes on 22 July 2020. Pravasi Rojgar app is re-named as the Good Worker App. The initiative was started by the actor to help the migrants who have migrated from various places. Candidates can register the details, educational qualification and experience details to Pravasi Rojgar.com.
- 96. Option (3) is correct.**
Article 32 of the Indian Constitution deals with the Right to Constitutional Remedies. This Right empowers the citizens to move to a court of law in case of any denial of the fundamental rights. There is a right in India which states that a person can move to Supreme Court if he/she wants to get their fundamental rights protected.
- 97. Option (2) is correct.**
Litti Chokha is a famous cuisine of Bihar. The litti is the bread made out of flour and is stuffed with sattu and chokha is the side dish made using eggplant, potato or tomatoes. It is delicious and nutritious which is very commonly found at restaurants and street vendors.
- 98. Option (1) is correct.**
Salman Rushdie is the author of the book 'Shame', published in 1983. It portrays the lives of Iskander Harappa, and General Raza Hyder and their relationship. The central theme of the novel is that begetting "shame" begets violence.
- 99. Option (2) is correct.**
Rickets is a condition that affects bone development in children. It is caused when a child's growing bones fail to develop due to a lack of vitamin D. It causes bone pain, poor growth and soft, weak bones that can lead to bone deformities. Signs and symptoms of dietary deficiency rickets can include bone tenderness, and susceptibility for bone fractures, particularly greenstick fractures.
- 100. Option (4) is correct.**
Village women of Maharashtra sing a folk song called Ovi which is made up of couplets describing women's maternal and marital homes and is sung by village womenfolk while performing routine chores throughout the day. It is one of the 'oldest Marathi song genres still performed today'. It has been in use since the 13th century in written poetry. Apart from this, the region's folk heritage includes boards, Gondhals, Lavanis-Shahiris and Powada. Sharang Dev, a 13th century composer, was from Maharashtra as well.