

STAFF SELECTION COMMISSION
Multi Tasking (Non-Technical) Staff

SOLVED PAPER

(13th July 2022: 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. The following sentence has been divided into parts. One of them may contain an error.
Select the part that contains the error from the given options.
If you don't find any error, mark 'No error' as your answer.
The mountain lion is / one of the slyest and more / elusive animals in the woods.
1. One of the slyest and more
2. No error
3. The mountain lion is
4. Elusive animals in the woods.
2. Select the correctly spelt word.
1. Envisaige 3. Emergense
2. Psychologist 4. Trancition
3. Select the most appropriate ANTONYM of the given word.
Overrun
1. Surrender 2. Inundate 3. Storm 4. Invade
4. Select the most appropriate option to fill in the blank.
Many people may not find the rewards _____ with the time and effort required.
1. insignificant 3. cautious
2. gleeful 4. commensurate
5. Select the most appropriate option to fill in the blank.
If we don't reverse course now, will anyone take anything we say about justice and _____ with any seriousness for decades to come?
1. righteousness 3. wickedness
2. mediation 4. dishonesty
6. Select the most appropriate meaning of the underlined idiom in the given sentence.
He is foaming at the mouth about the committee's decision.
1. to be enraged and show it
2. to cause damage to someone
3. to not recognize something good
4. to be upset about something that happened in the past
7. Select the correctly spelt word.
1. Disstract 2. Destarct 3. Distract 4. Distarct
8. Select the most appropriate synonym of the given word.
Probe
1. Search 2. Motivate 3. Invite 4. Push
9. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.
You are looking so pretty on these black outfit.
1. pretty in this 3. prettier in these
2. no improvement required 4. prettiest with those
10. Select the most appropriate option to fill in the blank.
He is the patient _____ called you in the morning.
1. which 2. whom 3. who 4. that
11. The following sentence has been divided into parts. One of them may contain an error.
Select the part that contains the error from the given options.
If you don't find any error, mark 'No error' as your answer.
They finally did what / we advice them to do / before the final match.
1. we advice them to do 3. they finally did what
2. before the final match 4. no error
12. Select the option that can be used as a one-word substitute for the given group of words.
Made in imitation so as to be passed off fraudulently as genuine
1. Counterfeit 3. Authentic
2. Staunch 4. Deliberate
13. Select the most appropriate option to fill in the blank.
Many people like playing cricket, but _____ my opinion, it is too chaotic.
1. in 2. from 3. for 4. with
14. Select the most appropriate ANTONYM of the given word.
Impure
1. Contaminated 3. Sterile
2. Segregated 4. Concentrated
15. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
If you plant a seed, / you will be noticed / that it takes some / time to grow.
1. that it takes some 3. you will be noticed
2. if you plant a seed 4. time to grow

16. Select the most appropriate meaning of the given idiom.
Back on one's feet
- To support the losing side
 - Relive previous moments
 - Well or successful again
 - Forced to begin something again
17. Select the most appropriate option to fill in the blank.
This cruise ship _____ in November and December.
- sails
 - sells
 - sales
 - seals
18. Select the most appropriate option to fill in the blank.
If you want to save your money, start living an _____ life.
- improper
 - economical
 - extravagant
 - indulgent
19. Select the most appropriate synonym of the given word.
Clandestine
- Blatant
 - Ornate
 - Open
 - Undercover
20. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.
In India, processed foods becomes popular in the 20th century.
- became popular in
 - become popularity in
 - no improvement required
 - become popular at

Comprehension:

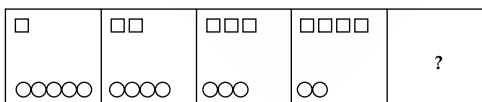
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

- Select the most appropriate option to fill in blank number 1.
1. imbibed 2. accused 3. extracted 4. issued
- Select the most appropriate option to fill in blank number 2.
1. since 2. from 3. for 4. to
- Select the most appropriate option to fill in blank number 3.
1. deposited 2. set 3. located 4. situated
- Select the most appropriate option to fill in blank number 4.
1. soon 2. late 3. long 4. blind
- Select the most appropriate option to fill in blank number 5.
1. unnecessary 2. optional 3. gratuitous 4. requisite

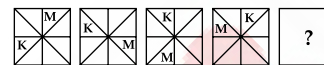
General Intelligence & Reasoning

26. Identify the number that does NOT belong to the following series.
30, 15, 15, 22.5, 46, 112.5
- 46
 - 112.5
 - 22.5
 - 30
27. Select the figure from among the given options that can replace the question mark (?) in the following series.



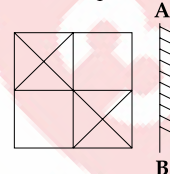
- -
 -
 -
28. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
VOCAL : CVJHS :: TROOF : AYVVVM :: RTAGE : ?
- YAHNM
 - YAHML
 - YAHNN
 - YAHNL

29. Select the figure from among the given options that can replace the question mark (?) in the following series.



-
-
-
-

30. Select the correct mirror image of the given figure when the mirror is placed at line AB as shown.



-
-
-
-

31. If 'White' is called 'Blue', 'Blue' is called 'Red', 'Red' is called 'Yellow', 'Yellow' is called 'Green', 'Green' is called 'Black', 'Black' is called 'Violet', and 'Violet' is called 'Orange', then what would be the colour of human blood?
- Yellow
 - Violet
 - Red
 - Green

32. Select the number from among the given options that can replace the question mark (?) in the following series.
632, 637, 644, 653, 664, ?

- 677
- 687
- 679
- 681

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

Statements:

- Some mocks are exams.
- Some exams are banks.
- No bank is a local.

Conclusions:

I. Some mocks are local.

II. No mock is a local.

1. Neither conclusion I nor II follows

2. Only conclusion I follows

3. Only conclusion II follows

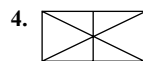
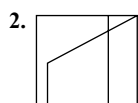
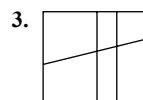
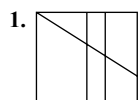
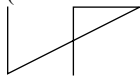
4. Either conclusion I or II follows

34. Four boys R, S, T and U are sitting in a row, facing towards the south (but not necessarily in the same order). Four girls A, B, C and D are sitting in a row, facing towards the face of these boys (but not necessarily in the same order). C and R are diagonally opposite to each other. A and S are diagonally opposite to each other. T is the immediate neighbour of R. D is the immediate neighbour of C.

Who is facing D?

1. S 2. T 3. U 4. R

35. Select the option in which the given figure is embedded (rotation is NOT allowed).



36. Which two numbers (not digits) need to be interchanged to make the given equation correct?

$$83 + 711 - 95 \div 9 \times 2 = 20$$

1. 9 and 2 3. 95 and 83
2. 711 and 95 4. 2 and 83

37. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

THROW : XPSIU :: QUICK : LDJVR :: LIGHT : ?

1. UIHLM 2. UIHJM 3. UIHKM 4. UIHJN

38. Select the option that is related to the third number in the same way as the second number is related to the first number and sixth number is related to the fifth number.

$$6 : 232 :: 8 : ? :: 10 : 1016$$

1. 520 2. 535 3. 540 4. 528

39. The speeds of seven cars C1, C2, C3, C4, C5, C6 and C7 are compared. All cars have different speeds. The speed of C1 is more than only two cars. The speed of C6 is more than C4 and less than C5. The speeds of C2 and C3 are the highest and the lowest, respectively. The speed of C4 is more than C1.

The speed of how many cars is less than C7?

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

40. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

$$123 : 616 :: 147 : 736 :: 211 : ?$$

1. 1056 2. 1046 3. 996 4. 1036

41. Select the letter-cluster that can replace the question mark (?) in the following series.

GOAL, IMCJ, KKEH, MIGF, ?

1. OHID 2. OGJD 3. OGIC 4. OGID

42. In a certain code language, '321' means 'cold filtered coffee', '653' means 'very cold day' and '985' means 'day and night'.

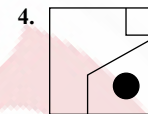
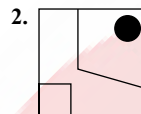
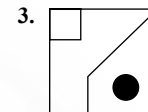
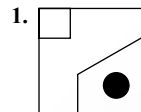
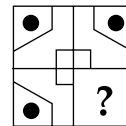
What is the code for 'very' in the same language?

1. 5 2. 3 3. 9 4. 6

43. In a certain code language, 'grapes are multi red' is coded as '8 6 4 3', 'red people eat mango' is coded as '7 4 5 2' and 'mango multi apple' is coded as '3 5 0'. How will 'red apple' be coded in that language?

1. 8 5 2. 4 0 3. 5 0 4. 8 6

44. Select the figure from the options that can replace the question mark (?) and complete the pattern (rotation is not allowed).



45. After interchanging the given two signs and two numbers, what will be the value of the following expression?

÷ and +; 7 and 15

$$5 \div 35 + 15 \times 6 - 7 = ?$$

1. 40 2. 30 3. 20 4. 10

46. Select the option that is related to the third word in the same way as the second word is related to the first word.

Canberra : Australia :: Doha : ?

1. Qatar 2. Iran 3. Yemen 4. Kuwait

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

Statements:

No 90s are 80s.

Some 90s are 40s.

All 80s are 70s.

Conclusions:

I. All 80s being 40s is a possibility.

II. Some 70s are not 90s.

1. Only conclusion II follows.

2. Only conclusion I follows.

3. Both conclusions I and II follow.

4. Neither conclusion I nor II follow.

48. In a certain code language, 'DETAIL' is written as 'FCVYKJ' and 'HEALTH' is written as 'JCCJVF'. How will 'MOTION' be written in that language?

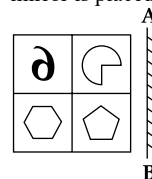
1. OMVGPL

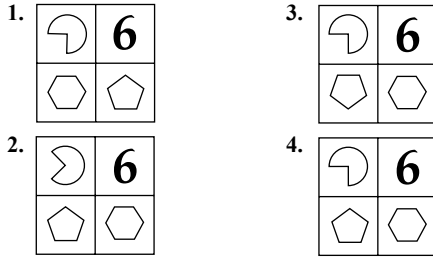
3. OMVGQL

2. OMVGQM

4. OMVGRL

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





50. Seven girls A, B, C, D, E, F and G are sitting around a circular table facing opposite the centre (not necessarily in the same order). E is second to the right of A. C is the immediate neighbour of E. D is third to the right of C. B is the immediate neighbour of E and A. F is fourth to the right of A.

Which of the following statements is correct?

- I. D is next to the right of G.
 II. A is third to the left of B.
 1. Only I
 2. Both I and II
 3. Only II
 4. Neither I nor II

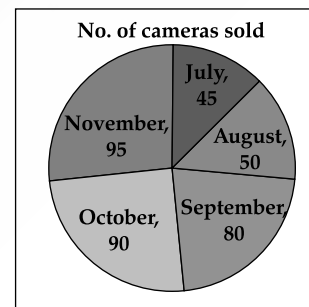
Numerical Aptitude

51. The average marks obtained in a test by three students is x . If the marks of a new student is also considered, then the average marks increases by 2. What is the marks secured by the new student in the test?
 1. $x + 4$ 2. $x + 6$ 3. $x + 8$ 4. $x + 2$
52. In a partnership business, A and B invested in the ratio of 5 : 6. At the end of 8 months, A withdrew his capital. If they shared the eventual profit in the ratio 5:9, then what is the number of months for which B invested his capital?
 1. 6 months 3. 12 months
 2. 10 months 4. 11 months
53. During a journey a person travels half of the distance at a speed of 18 km/h and the remaining half of the journey at a speed of 22 km/h. What is his average speed for the entire journey?
 1. 21.4 km/h 3. 19.2 km/h
 2. 20.2 km/h 4. 19.8 km/h
54. D_1 and D_2 can do a piece of work together in 16 days, D_2 and D_3 can do the same work together in 24 days, while D_3 and D_1 can do it together in 48 days. In how many days can all 3, working together, do $\frac{5}{6}$ of the work?
 1. $\frac{31}{3}$ days 3. $\frac{35}{3}$ days
 2. $\frac{40}{3}$ days 4. $\frac{38}{3}$ days
55. E% of 12.5% of 480 = 72. What is the value of E?
 1. 95 2. 110 3. 105 4. 120
56. In a job, Z_1 , Z_2 and Z_3 work for 8, 10 and 15 days, respectively. The ratio of the daily wages of Z_1 , Z_2 and Z_3 is 3 : 4 : 4, respectively. If they receive ₹4,960 as total wages for the work done, then what is the combined share of Z_2 and Z_3 in the total wages received?
 1. ₹4,800 2. ₹4,000 3. ₹4,400 4. ₹4,200
57. The area of the base of a solid cone is 616 cm^2 . If the height of the cone is 15 cm, then what is the volume of this cone?
 1. 2940 cm^3 2. 3440 cm^3 3. 3190 cm^3 4. 3080 cm^3
58. What is the value of A, if $A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$?
 1. 30 2. 71 3. 31 4. 29
59. Study the given table and answer the question that follows.
 The table shows the percentage distribution of students from the five different colleges in various disciplines.

Disciplines	Colleges				
	P	Q	R	S	T
Science	25	35	45	28	35
Economics	45	40	15	42	25
Mathematics	30	25	40	30	40
Total number of students	8000	10000	15000	9000	11000

Students from the discipline of mathematics in colleges P and R taken together is what percentage of the total number of students in colleges P and R taken together? [Give your answer correct to one decimal place.]

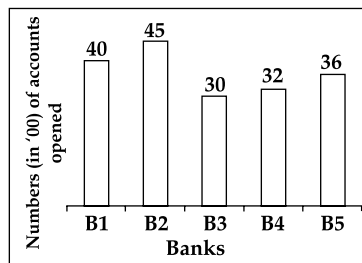
1. 36.9% 2. 36.5% 3. 37.2% 4. 37.5%
60. A boat can travel 5 km upstream in 15 minutes. If the ratio of the speed of the boat in still water to the speed of the stream is 6 : 1, then how much time will the boat take to cover 19.6 km downstream?
 1. 54 minutes 3. 42 minutes
 2. 26 minutes 4. 31 minutes
61. A retailer bought 50 kg of Arhar Dal at a discount of 20%. Another 2 kg of Arhar dal was offered to him for free by the wholesaler on the purchase of 50 kg of the dal. If the retailer sells the entire quantity of the dal at the marked price to a customer, what is the profit percentage gained by the retailer?
 1. 30% 2. 22% 3. 12% 4. 15%
62. There are 32 consecutive natural numbers. The average of the first 13 numbers is x . What is the average of the next 19 numbers?
 1. $x + 15$ 2. $x + 16$ 3. $x + 17$ 4. $x + 18$
63. The ratio of two numbers is 3 : 7. The sum of the two numbers is 180. What is the positive difference between the two numbers?
 1. 80 2. 72 3. 85 4. 78
64. What is the LCM of two numbers, whose product is 432 and HCF is 6?
 1. 68 2. 48 3. 78 4. 72
65. The following pie chart gives the central angles of the sectors representing the number of cameras sold from a shop from July to November in a certain year.



What percentage are the sales in July of the total sales from July to November?

1. 25% 2. 50% 3. 12.5% 4. 20%
66. The compound interest on ₹20,000 at 5% per annum, compounded annually, is ₹2,050. What is the time period?
 1. 2.5 years 2. 2 years 3. 4 years 4. 3 years
67. What is the value of $\frac{7}{8} + \frac{8}{11}$ of $\left[\frac{33}{16} - \frac{5}{12} + \left(\frac{6}{11} - \frac{5}{12} + \frac{7}{22} \right) \right]$?
 1. $\frac{6871}{3605}$ 2. $\frac{6805}{2987}$ 3. $\frac{6907}{3971}$ 4. $\frac{6961}{2904}$

68. The following bar chart shows the number of accounts (in '00) opened in a month by 5 banks.



The average money in each account of B1, B3 and B5 is ₹500. The average money in each account of B2 and B4 is ₹1,000. How much money is there in all the accounts that have been opened during the given month, in all the 5 banks, taken together?

1. ₹1,30,00000 3. ₹1,25,00000
2. ₹1,20,00000 4. ₹1,45,00000
69. If the cost price of 15 pencils is equal to the selling price of 10 pencils, what is the gain or loss percentage?
1. 20% gain 2. 30% loss 3. 50% gain 4. 40% loss
70. Sandeep buys a toy car for ₹500 and sells it for ₹625. What is his gain or loss percentage?
1. 20% gain 2. 20% loss 3. 25% gain 4. 25% loss
71. If the rate of interest is 4% for the first year, 5% for the second year and 6% for the third year, then find the compound interest on ₹10,000 for 3 years, if interest is compounded annually?
1. ₹1,580.25 2. ₹1,575.20 3. ₹1,500.00 4. ₹1,570.50
72. Anjali decided to spend 45% of her salary on shopping. On completion of her shopping, she realised that she had spent only ₹11,475, which was 60% of what she had decided to spend. How much is Anjali's salary?
1. ₹40,800 2. ₹29,600 3. ₹38,400 4. ₹42,500
73. The largest possible right circular cylinder is cut out from a wooden cube of edge 7 cm. Find the volume of the cube left over after cutting the cylinder (in cm³). (use $\pi = \frac{22}{7}$)
1. 73.5 2. 63.5 3. 87.5 4. 67.5
74. Two beakers contain acid and water in the ratio 2 : 3 and 3 : 4 respectively. If equal volumes of the mixtures from these two beakers are poured into a common beaker, find the resultant ratio to water in the mixture in the common beaker.
1. 7 : 5 2. 21 : 29 3. 5 : 7 4. 29 : 41
75. The radius of a circular wheel of a toy car is 56 mm. In how many revolutions can it cover a distance of 176 cm?
Use $22/7$ as π
1. 6 2. 3 3. 5 4. 4

General Awareness

76. 'The Kiss of Life' is the autobiography of who among the following persons?
1. Sanjay Suri 3. Dino Morea
2. John Abraham 4. Emraan Hashmi
77. In which state of India is Bhogali Bihu festival celebrated?
1. Assam 3. Rajasthan
2. Andhra Pradesh 4. Tamil Nadu
78. Paika is a martial folk dance popular in which of the following states?
1. Kerala 3. Gujarat
2. Andhra Pradesh 4. Odisha
79. Who is the author of the book 'Pride, Prejudice, and Punditry'?
1. Manish Sisodia 3. Amitav Ghosh
2. Pranab Mukherjee 4. Shashi Tharoor
80. Which of the following statements is INCORRECT?
1. A post-anal tail is present in Chordates.
2. Mollusca is the largest animal phylum.
3. Ctenophores are commonly known as sea walnuts.
4. Locust is an example of Arthropoda.
81. Which of the following teams won the Ranji trophy for the year 2019-20?
1. Mumbai 3. Baroda
2. Bengal 4. Saurashtra
82. In the beginning of November, the low pressure condition shifts over the Bay of Bengal. This transfer is related to the tidal pressure, which is above _____.
1. Andaman Sea 3. Caspian Sea
2. Sea of Japan 4. Pacific Ocean
83. In which of the following years was the Preamble of the Indian Constitution first amended?
1. 1968 2. 1955 3. 1976 4. 1988
84. The Lion Capital was built in the wake of the historic event of _____ of Buddha.
1. Home Abandonment 3. Death
2. Acquired Knowledge 4. First Sermon
85. Which of the following rivers is also known as 'Bhagirathi' at the place of its origin?
1. Brahmaputra 2. Yamuna 3. Indus 4. Ganga
86. Which of the following railway zones has recently completed 100% electrification of its entire route?
1. South Central Railway 3. Harbour Railway
2. Konkan Railway 4. North Eastern Railway
87. Who among the following was the founder of the Atmiya Samaj?
1. Swami Vivekananda 3. Raja Ram Mohan Roy
2. Bhimrao Ramji Ambedkar 4. Dayananda Saraswati
88. Aparna Satheesan, who won the prestigious National Nritya Shiromani Award 2022, is associated with which of the following dance forms?
1. Sattriya 3. Mohiniattam
2. Kuchipudi 4. Kathak
89. _____ is a motion moved by a member to cut short the debate on a matter before the House.
1. Closure 3. Privilege
2. No-Confidence 4. Censure
90. The Battle of Khanwa was fought between:
1. Babur and Ibrahim Lodi
2. Babur and Rana Sangha
3. Sher Shah Suri and Rana Sangha
4. Babur and Sher Shah Suri
91. Which of the following is the oldest Veda?
1. Rigveda 3. Samaveda
2. Atharvaveda 4. Yajurveda
92. Which of the following statements is/are true?
I. Deforestation reduces the amount of CO₂ in the air.
II. CO₂ binds the heat and does not allow it to be released into the air.
1. Only I 3. Both I and II
2. Neither I nor II 4. Only II
93. Who became the first Governor-General of India in 1773?
1. Robert Clive 3. Thomas Munro
2. Warren Hastings 4. Charles Cornwallis

94. Which of the following is NOT an institutional factor for agriculture?
 1. Land reforms 3. Size of fields
 2. Electricity 4. Land tenure
95. As per the 2011 census, which of the following states of India has the least population?
 1. Sikkim 3. Kerala
 2. Bihar 4. Chhattisgarh
96. Pandit Ram Narayan was associated with which musical instrument?
 1. Flute 2. Sarod 3. Sarangi 4. Guitar
97. Which of the following is an example of emulsion?
 1. Milk 2. Mist 3. Gemstone 4. Clouds
98. India won the bronze medal (the only one won by India) in which team sports at the Tokyo Olympics 2020?
 1. Basketball 3. Badminton
 2. Field hockey 4. Table tennis
99. _____ won the women's singles title at the Swiss Open Super 300 badminton tournament 2022.
 1. PV Sindhu 3. Ashmita Chaliha
 2. Kirsty Gilmour 4. Busanan Ongbamrunphan
100. According to the census 2011, the second highest populated metro in India is:
 1. Bengaluru 2. Chennai 3. Delhi 4. Mumbai

Answer Key

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

Answers with Explanations

1. **Option (1) is correct.**
 The correct sentence is: The mountain lion is one of the slyest and most elusive animals in the woods. Here, 'most elusive animals' will replace 'more elusive animals', this is because the adjective used here is in superlative degree- 'one of the slyest', so the next adjective will also be in same degree for maintaining parallel structure.
2. **Option (2) is correct.**
 'Envisage' will be spelt as 'envisage'; 'Emergence' will be as written as 'emergence'; 'Transition' will be spelt as 'transition'. Therefore, the correct spelling is 'Psychologist'.
3. **Option (1) is correct.**
 Overrun means to continue past an intended limit/spread over or occupy (a place) in large numbers. Thus, all options, except (1) are synonyms.
4. **Option (4) is correct.**
 The correct sentence is: Many people may not find the rewards commensurate with the time and effort required. The word 'commensurate' means corresponding in size or degree. The sentence means that many people do not get the rewards that are equivalent to the time and effort required.
5. **Option (1) is correct.**
 The correct sentence is: If we don't reverse course now, will anyone take anything we say about justice and righteousness with any seriousness for decades to come? The blank requires a positive word because it needs to agree with 'justice'. Thus, 'righteousness' is appropriate. 'Mediation' means 'intervention' this cannot validate the context.
6. **Option (1) is correct.**
 If you say that someone is foaming at the mouth, you mean that they are very angry. Thus, the answer is 'to be enraged and show it'.
7. **Option (3) is correct.**
 The correctly spelt word is 'distract'.
8. **Option (1) is correct.**
 Probe implies penetration to investigate or explore something hidden from sight or knowledge. The correct synonym is 'search'.
9. **Option (1) is correct.**
 The correct sentence is: You are looking so pretty in this black outfit. 'On' is used to indicate touching and being supported by the top surface of (something), or moving to a position that is supported by something. Moreover, there is mention of one outfit, so 'this' is appropriate.
10. **Option (3) is correct.**
 The correct sentence is: He is the patient who called you in the morning. 'He' is the subject of the sentence, alluding to a person; therefore, the most appropriate pronoun is 'who'.
11. **Option (1) is correct.**
 The correct sentence is: They finally did what we advised them to do before the final match. The sentence is in past tense, so the form of verb will be in past. Moreover, 'advice' is the noun, and 'advise' is a verb, so it will be 'advised'. Here, 'we advice them' will be replaced by 'we advised them'.
12. **Option (1) is correct.**
 'Counterfeit' means 'a fraudulent imitation of something else.' 'staunch' implies 'very loyal and committed in attitude.' 'Authentic' means 'genuine'. 'Deliberate' is 'done consciously and intentionally.' Thus, counterfeit is 'made in imitation so as to be passed off fraudulently as genuine'.
13. **Option (1) is correct.**
 Many people like playing cricket, but in my opinion, it is too chaotic. 'In my opinion' is a phrase people use in speech and writing before expressing something that is their belief or viewpoint and not necessarily a fact.
14. **Option (3) is correct.**
 'Impure' means 'mixed with foreign matter'. 'Sterile' means 'free from bacteria or other living microorganisms; totally

clean.' 'Contaminated' is a synonym; whereas, 'sterile' is an antonym.

15. Option (3) is correct.

The correct sentence is: If you plant a seed, you will notice that it takes some time to grow. Here, 'you will be noticed' will be replaced by 'you will notice', the conditional sentence takes simple present tense accompanied by simple future. Moreover, 'you will be noticed' changes the meaning of the sentence.

16. Option (3) is correct.

'Back on one's feet' means 'to be healthy again after a period of illness'. The correct answer is: 'Well or successful again'.

17. Option (1) is correct.

The correct sentence is: This cruise ship sails in November and December. Since the subject is in singular ('this ship'), the verb will also be in singular (sails). 'Sell' is to trade; 'sales' refer to the action of selling something.

18. Option (2) is correct.

The correct sentence is: If you want to save your money, start living an economical life. 'Economical' means using no more of something than is necessary. So, for saving money, one needs to be thrifty.

19. Option (4) is correct.

'Clandestine' means 'kept secret or done secretly, especially because illicit.' Thus, the correct synonym is 'undercover'.

20. Option (1) is correct.

The correct sentence is: In India, processed foods became popular in the 20th century. The sentence refers to a fact of the 20th century. So, it will take the simple past tense. Here, 'became popular' will replace 'becomes popular'.

21. Option (4) is correct.

The correct sentence is: The Ministry of Defence has issued the formal Government Sanction Letter ... 'issued' means 'supply or distribute (something) for use or sale.' While, 'imbibed' means 'absorb or assimilate'. Letter can be issued, not extracted.

22. Option (3) is correct.

The correct sentence is: Government Sanction Letter for grant of permanent commission (PC) to women officers in the Army. We use 'for' to talk about a purpose or a reason for something. Here, the purpose is 'grant of permanent commission (PC) to women officers in the Army.'

23. Option (2) is correct.

The correct sentence is: "In anticipation, the Army Headquarters had set in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The phrase 'set in motion' means start something moving or working. Here, a series of preparatory actions were started for affected women officers.

24. Option (1) is correct.

The correct sentence is: The Selection Board will be scheduled as soon as all affected Short Service Commissioned (SSC) women officers... The phrase 'as soon as' implies 'immediately at or shortly after the time that.'

25. Option (4) is correct.

The correct sentence is: The Selection Board will be scheduled as long as all affected Short Service Commissioned (SSC) women officers exercise their option and complete requisite documentation," The word 'requisite' means 'a thing that is necessary for the achievement of a specified end'.

26. Option (1) is correct.

The pattern of the series is as follows:

$$30 \times 0.5 = 15$$

$$15 \times 1 = 15$$

$$15 \times 1.5 = 22.5$$

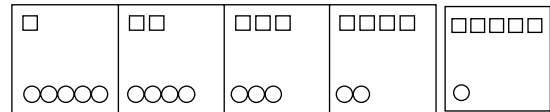
$$22.5 \times 2 = 45 \neq 46$$

$$45 \times 2.5 = 112.5$$

Hence, 46 does not belong to the series.

27. Option (3) is correct.

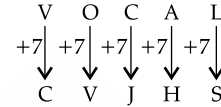
The pattern of the figure series is as follows:



Here, the square element is increased by 1 in each step and the circle element is decreased by 1 in each step.

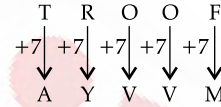
28. Option (4) is correct.

Given that: VOCAL : CVJHS

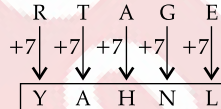


Here, each letter of the given word is increased by 7.

And, TROOF : AYVVM



Similarly, RTAGE is written in the same way



Hence, RTAGE is written as YAHNL.

29. Option (1) is correct.

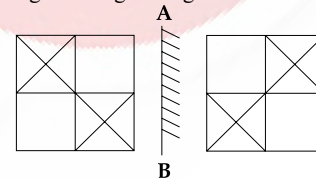
The pattern of the figure series is as follows:



Here, M moves 2 steps in clockwise direction and K moves 1 step in clockwise direction.

30. Option (2) is correct.

The mirror image of the given figure is as follows:



31. Option (1) is correct.

As we know the color of blood is red and here in the question, red is called yellow. Therefore, the color of human blood would be yellow.

32. Option (1) is correct.

The pattern of the series is as follows:

$$632 + 5 = 637$$

$$637 + 7 = 644$$

$$644 + 9 = 653$$

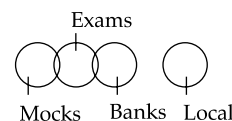
$$653 + 11 = 664$$

$$664 + 13 = 677$$

Hence, 677 will complete the series.

33. Option (4) is correct.

The venn diagram of the given statements is as follows:



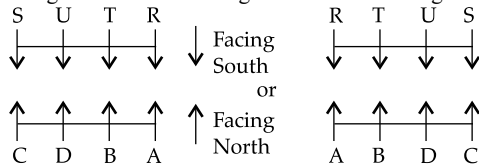
From conclusion I: Some mocks are local may be true.

From conclusion II: No mock is a local may be true.

Hence, either conclusion I or II follows.

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

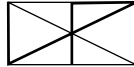
The sitting arrangement of four boys in a row I facing south and four girls in a row II facing north is as following:



From the above arrangements, U is facing D.

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

The given image is embedded in the option figure 4 as below:



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

Given equation: $83 + 711 - 95 \div 9 \times 2 = 20$

Upon checking Option (2) and after interchanging numbers 711 and 95, we get:

$$83 + 95 - 711 \div 9 \times 2 = 20$$

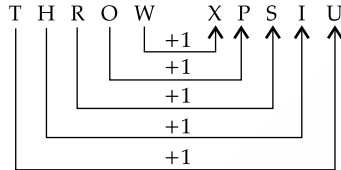
$$83 + 95 - 79 \times 2 = 20$$

$$178 - 158 = 20$$

$$20 = 20$$

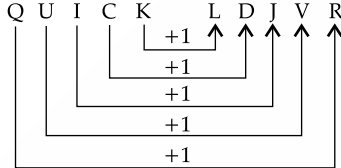
37. **Option (2) is correct.**

Given that: THROW : XPSIU

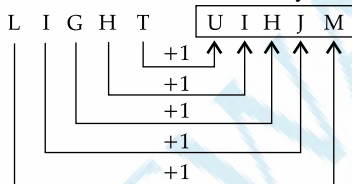


Here, each letter of the given word is increased by 1.

And, QUICK : LDJVR



Similarly, LIGHT is written in the same way



Hence, LIGHT is written as UIHJM.

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

Given that: $6 : 232$

$$6^3 + 16 = 216 + 16 = 232$$

Here, take the cube of the first number and add 16 to get the second number.

And, $10 : 1016$

$$10^3 + 16 = 1000 + 16 = 1016$$

Similarly, $8 : ?$

$$8^3 + 16 = 512 + 16 = 528$$

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

The speed of seven cars is as follows:

$$_ > _ > _ > _ > C1 > _ > _$$

$$C5 > C6 > C4$$

$$C2 > _ > _ > _ > _ > C3$$

$$_ > _ > _ > C4 > C1 > _ > _$$

...(i)

...(ii)

...(iii)

...(iv)

By combining all the equations, we get

$$C2 > C5 > C6 > C4 > C1 > C7 > C3$$

Hence, speed of 1 car is less than C7.

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

Given that: $123 : 616$

$$123 \times 5 + 1 = 615 + 1 = 616$$

Here, the first number is multiplied by 5 and then 1 is added to get the second number.

And, $147 : 736$

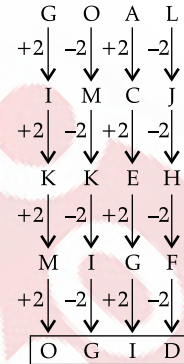
$$147 \times 5 + 1 = 735 + 1 = 736$$

Similarly, $211 : ?$

$$211 \times 5 + 1 = 1055 + 1 = 1056$$

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

The pattern of the series is as follows:



Hence, OGID will complete the series.

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

Given that:

3 2 1 is coded as cold filtered coffee

6 5 3 is coded as very cold day

9 8 5 is coded as day and night

Here, the code for day - 5, cold - 3, very - 6, and so on.

Therefore, the code for very will be 6.

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

Given that:

grapes are multi red is coded as 8 6 4 3

red people eat mango is coded as 7 4 5 2

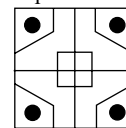
mango multi apple is coded as 3 5 0

Here, the code for red - 4, multi - 3, mango - 5, apple - 0, so on.

Therefore, the code for red apple will be 4 0.

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

Option figure (1) will complete the figure.



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

Given expression:

$$5 \div 35 + 15 \times 6 - 7 = ?$$

After interchanging the sign and number, we get

$$5 + 35 \div 7 \times 6 - 15 = ?$$

$$\Rightarrow 5 + 5 \times 6 - 15 = ?$$

$$\Rightarrow 5 + 30 - 15 = ?$$

$$\Rightarrow 35 - 15 = ?$$

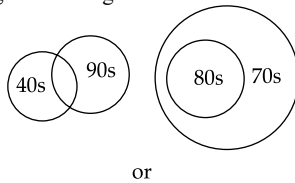
$$\Rightarrow ? = 20$$

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

As we know that the capital of Australia is Canberra. Similarly, the capital of Qatar is Doha.

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

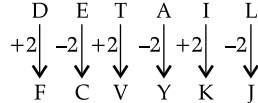
The venn diagram of the given statements is as follows:



From conclusion I: All 80s being 40s is a possibility is true.
 From conclusion II: Some 70s are not 90s is true.
 Hence, both the conclusions I and II follows.

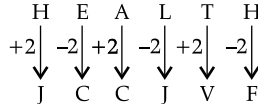
48. **Option (3) is correct.**

Given that: DETAIL is written as FCVYKJ

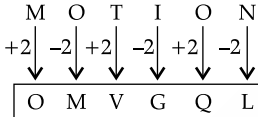


Here, the first, third, and fifth letters of the given word are increasing by 2 and the second, fourth and sixth letters are decreasing by 2.

And, HEALTH is written as JCCJVF



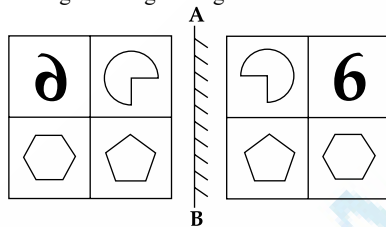
Similarly, MOTION is written as



Hence, MOTION is written as OMVGQL.

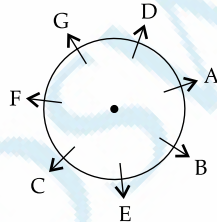
49. **Option (4) is correct.**

The mirror image of the given figure is as follows:



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

The sitting arrangement of seven girls around a circular table facing opposite the centre is as follows:



From the above arrangements, D is next to the right of G is true. A is third to the left of B is false. Therefore, only statement I is correct.

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

Total marks obtained by 3 students = $3x$
 Let the marks of new students be y
 Total marks of 4 students = $(x + 2) \times 4 = 4x + 8$
 Marks obtained by 4 students = $3x + y$
 $4x + 8 = 3x + y$
 $\Rightarrow 4x - 3x + 8 = y \Rightarrow y = x + 8$
 Hence, the marks secured by the new student = $x + 8$

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

Let B invested for m months
 Profit is shared in the investment ratio
 A's investment = $5x \times 8$
 B's investment = $6x \times m$
 According to question:

$$\frac{5x \times 8}{6x \times m} = \left(\frac{5}{9}\right) \Rightarrow \left(\frac{40}{6m}\right) = \frac{5}{9}$$

$$\Rightarrow m = \left(\frac{40}{6}\right) \times \left(\frac{5}{9}\right) \Rightarrow m = 12 \text{ months}$$

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

$$\text{Average speed} = \frac{\text{Total distance travelled}}{\text{Total time taken}}$$

Let total distance = $2D$

$$D = S \times T$$

$$T_1 = \frac{D}{18}$$

$$T_2 = \frac{D}{22}$$

$$\Rightarrow T_1 + T_2 = \frac{D}{18} + \frac{D}{22} = \frac{9D + 11D}{198} = \frac{20D}{198}$$

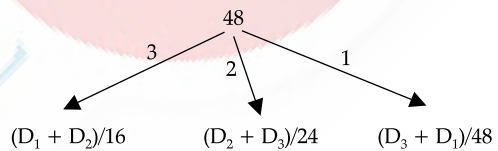
$$\Rightarrow T_1 + T_2 = \frac{10D}{99}$$

$$\text{Hence, Average speed} = \frac{2D}{\frac{10D}{99}}$$

$$= \frac{2D \times 99}{10D}$$

$$= (19.8) \text{ km/hour}$$

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



Total work = 48 units

1 day work of 2 $(D_1 + D_2 + D_3) = 3 + 2 + 1 = 6$ units

Hence, 1 day work of $(D_1 + D_2 + D_3) = 3$ units $\left(\frac{5}{6}\right)$ th of the

total work = $48 \times \left(\frac{5}{6}\right)$ units = 40 units. $\left(\frac{5}{6}\right)$ th of the total

work done by $(D_1 + D_2 + D_3) = \left(\frac{40}{3}\right)$ days

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

E% of 12.5% of %480 = 72

Using BODMAS

$$\left(\frac{E}{100}\right) \times \left(\frac{12.5}{100}\right) \times 480 = 72$$

$$\Rightarrow E = \frac{72 \times 100 \times 100 \times 10}{125 \times 480} \Rightarrow E = 120$$

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

Total wages of $z_1 = 8 \times 3x = 24x$
 Total wages of $z_2 = 10 \times 4x = 40x$
 Total wages of $z_3 = 15 \times 4x = 60x$

$$\begin{aligned} \text{Total wages} &= 24x + 40x + 60x \\ 124x &= ₹ 4960 \\ x &= \frac{₹(4960)}{124} = ₹ 40 \end{aligned}$$

$$\begin{aligned} \text{Combined share of } z_2 \text{ and } z_3 &= 40x + 60x = 100x \\ &= 100 \times 40 = ₹ 4000 \end{aligned}$$

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

$$\text{Volume of cone} = \left(\frac{1}{3}\right)\pi r^2 h$$

$$\text{Area of base of cone} = \pi r^2 = 616 \text{ cm}^2$$

$$\text{Hence, Volume of cone} = \left(\frac{1}{3}\right) 616 \times 15 \text{ cm}^3 = 3080 \text{ cm}^3$$

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

$$A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$$

Using BODMAS rule, we get

$$A = [50 - 4 \times 5 + \{2 - 1\}]$$

$$A = [50 - 4 \times 5 + \{1\}]$$

$$A = [50 - 20 + 1]$$

$$A = [31]$$

$$\text{Value of } A = 31$$

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

Number of students in mathematics in college P = 30% of 8000 = 2400

Number of students in mathematics in college R = 40% of 15000 = 6000

Percentage of students in maths in college P and R w.r.t to total students in college P and R

$$= \frac{2400 + 6000}{8000 + 15000} \times 100$$

$$= \frac{8400}{23000} \times 100 = 36.52\%$$

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

Let the speed of the boat (B) = 6x

Speed of stream (W) = x

$$\text{Upstream speed} = \frac{\text{Distance}}{\text{time}}$$

$$(B - W) = \frac{5}{15} = \left(\frac{1}{3}\right)$$

$$\Rightarrow 6x - x = \frac{1}{3}$$

$$\Rightarrow 5x = \frac{1}{3}$$

$$\Rightarrow x = \frac{1}{15}$$

$$\text{Time} = \frac{\text{Distance}}{\text{Downstream speed}}$$

$$= \frac{19.6}{B + W}$$

$$= \frac{19.6}{6x + x}$$

$$= \frac{19.6}{7x}$$

$$= \frac{19.6}{7 \times \left(\frac{1}{15}\right)} = 42 \text{ minutes}$$

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

Market Price (MP) = 5

Cost Price (CP) = 4

$$20\% = \frac{1}{5}$$

SP of 52 kg dal = 52 × 5 = 260 units

CP of 50 kg dal = 50 × 4 = 200 units

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

$$= \frac{260 - 200}{200} \times 100 = \frac{60}{200} \times 100 = 30\%$$

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

The average of first 13 numbers be x. In the first 13 numbers 7th will be middle as well as the average of these numbers is equal to x.

13th number = x + 6

14th number = x + 7

Similarly, 32nd number = x + 25

So, in the next 19 numbers, the first number will be (x + 7) and the last one will be (x + 25) average

$$= \frac{x + 7 + x + 25}{2} = \frac{2x + 32}{2} = (x + 16)$$

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

Let the two numbers be 3x and 7x.

According to question:

$$\Rightarrow 3x + 7x = 180 \Rightarrow 10x = 180 \Rightarrow x = 18$$

Positive difference between two numbers = (7x - 3x) = 4x = 4 × 18 = 72

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

LCM × HCF = 1st number × 2nd number

$$\text{LCM} \times 6 = 432$$

$$\text{LCM} = \left(\frac{432}{6}\right) = 72$$

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

Sales in July = 45°

Total sales from July to November = 360°

% of sales in July total sales

$$= \left(\frac{45}{360}\right) \times 100 = 12.5\%$$

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

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

$$2050 = 20,000 \left(1 + \frac{5}{100}\right)^2 - 20,000$$

$$\Rightarrow \left(\frac{2050}{20,000} + 1\right) = \left(1 + \frac{5}{100}\right)^2$$

$$\Rightarrow \frac{22050}{20000} = \left(\frac{105}{100}\right)^n$$

$$\Rightarrow \frac{11025}{10000} = \left(\frac{105}{100}\right)^n$$

$$\Rightarrow \left(\frac{105}{100}\right)^2 = \left(\frac{105}{100}\right)^n$$

Comparing both sides

$$\Rightarrow n = 2 \text{ years}$$

67. Option (4) is correct.

$$\begin{aligned} & \frac{7}{8} + \frac{8}{11} \text{ of } \left[\left(\frac{33}{16} \right) - \left(\frac{5}{12} \right) + \left(\left(\frac{6}{11} \right) - \left(\frac{5}{12} \right) + \left(\frac{7}{22} \right) \right) \right] \\ &= \frac{7}{8} + \frac{8}{11} \text{ of } \left[\left(\frac{33}{16} \right) - \left(\frac{5}{12} \right) + \left(\frac{72 - 55 + 42}{132} \right) \right] \\ &= \frac{7}{8} + \frac{8}{11} \text{ of } \left[\left(\frac{33}{16} \right) - \left(\frac{5}{12} \right) + \left(\frac{59}{132} \right) \right] \\ &= \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{99 - 20}{48} + \left(\frac{59}{132} \right) \right] \\ &= \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{79}{48} + \left(\frac{59}{132} \right) \right] \\ &= \frac{7}{8} + \frac{8}{11} \text{ of } \left[\frac{869 + 236}{528} \right] \\ &= \frac{7}{8} + \frac{8}{11} \times \left[\frac{1105}{528} \right] \\ &= \left[\frac{2541 + 4420}{2904} \right] = \left[\frac{6961}{2904} \right] \end{aligned}$$

68. Option (1) is correct.

Money in account B ₁ = 40 × 500	= 20,000
Money in account B ₂ = 45 × 1000	= 45000
Money in account B ₃ = 30 × 500	= 15000
Money in account B ₄ = 32 × 1000	= 32000
Money in account B ₅ = 36 × 500	= 18000
	= 130,000

Since, the number of accounts opened is multiple of 100
Hence, total money = 130,000 × 100 = ₹ 1,30,00,000

69. Option (3) is correct.

CP of 15 pencils = SP of 10 pencils

$$\text{Hence, } \frac{\text{CP}}{\text{SP}} = \frac{10}{15} = \frac{2}{3}$$

$$\begin{aligned} \text{Gain \%} &= \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100 \\ &= \frac{3 - 2}{2} \times 100 = 50\% \end{aligned}$$

70. Option (3) is correct.

CP of toy = ₹ 500

SP of toy = ₹ 625

$$\begin{aligned} \text{Gain \%} &= \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100 \\ &= \frac{625 - 500}{500} \times 100 \\ &= \frac{125}{5} = 25\% \end{aligned}$$

71. Option (2) is correct.

$$\begin{aligned} \text{Amount} &= P \times \frac{100 + R_1}{100} \times \frac{100 + R_2}{100} \times \frac{100 + R_3}{100} \\ &= 10,000 \times \frac{100 + 4}{100} \times \frac{100 + 5}{100} \times \frac{100 + 6}{100} \\ &= \left(\frac{104}{100} \right) \times 105 \times 106 \end{aligned}$$

$$\begin{aligned} \text{Compound interest} &= A - P \\ &= 11575.2 - 10,000 \\ &= ₹ 1575.20 \end{aligned}$$

72. Option (4) is correct.

Let total salary of Anjali be ₹ x.

According to question:

60% of (45% of x) = ₹ 11,475

$$\frac{60}{100} \times \left(\frac{45}{100} \right) \times x = ₹ 11,475$$

$$x = \frac{11475 \times 100 \times 100}{60 \times 45}$$

$$x = ₹ 42,500$$

Hence, Anjali's Salary is ₹ 42,500.

73. Option (1) is correct.

$$\text{Radius of cylinder} = \frac{\text{side of cube}}{2} = \left(\frac{7}{2} \right) \text{ cm}$$

Height of cylinder = 7 cm

Volume of cube left = Volume of cube – Volume of cylinder cutted

$$\begin{aligned} &= (\text{Side})^3 - (\pi r^2 h) \\ &= (7)^3 - \left(\left(\frac{22}{7} \right) \left(\frac{7}{2} \right)^2 \cdot 7 \right) \\ &= 343 - 269.5 = 73.5 \end{aligned}$$

74. Option (4) is correct.

$$\text{Acid in beaker 1} = \frac{2}{5}$$

$$\text{Acid in beaker 2} = \frac{3}{7}$$

$$\text{Water in beaker 1} = \frac{3}{5}$$

$$\text{Water in beaker 2} = \frac{4}{7}$$

Since, the water and acid are mixed in equal volume:

$$\begin{aligned} & \left(\frac{2}{5} \right) + \left(\frac{3}{7} \right) : \left(\frac{3}{5} \right) + \left(\frac{4}{7} \right) \\ & \left(\frac{14 + 15}{35} \right) : \frac{21 + 20}{35} \\ & 29 : 41 \end{aligned}$$

75. Option (3) is correct.

Distance covered by a circular wheel in 1 revolution

$$= 2\pi r$$

$$= 2 \times \left(\frac{22}{7} \right) \times 56$$

$$= 352 \text{ mm} = 35.2 \text{ cm}$$

$$\text{Number of revolutions to cover 176 cm distance} = \frac{176}{35.2} = 5$$

76. Option (4) is correct.

The Kiss of Life is about Hashmi's time when his son needed him the most when everything else paled in comparison to the tennis ball tumour that invaded his son's kidney.

77. Option (1) is correct.

The Magh Bihu is also known as the Bhogali Bihu, which is a food festival. The harvesting season comes to an end with the Magh Bihu. The Uruka is the eve of the Magh Bihu. In Assam, it is the most gastronomical night of the year, when family and friends gather and feast around a bonfire.

78. Option (4) is correct.

Paika is a popular martial folk dance in Odisha's southern regions. Paika is a type of long spear. It has been a part of Odisha's culture since ancient times and is still a big part of the state's famous festivals. The Munda tribe performs the Paika dance. It's a one-of-a-kind folk dance depicting martial arts. This lovely dance is performed at weddings, Dussehra, and other special occasions. Paika Dance is performed for the enjoyment of the audience at a variety of festivals across the state. Paika is a popular martial folk dance in Odisha. Paika refers to long spears. It is a Sadani Nagpuri martial folk dance of Jharkhand, Chhattisgarh, and Odisha's Chotanagpur plateau region.

79. Option (4) is correct.

Dr Shashi Tharoor, a former union minister and Lok Sabha Member of Parliament, released his 23rd book, titled 'Pride, Prejudice, and Punditry,' in Hyderabad, Telangana. This book is divided into ten sections, each devoted to a specific topic such as modern Indian history, Indian politics, and so on. He received the 'Sahitya Akademi Award' for his book 'An Era of Darkness' in 2019. The book represents the culmination of Dr Tharoor's writings spanning over 50 years.

80. Option (2) is correct.

A post-anal tail is found in all chordates. A post-anal tail is a body extension that extends past the anal opening. This feature is only present in some species, such as humans, during the embryonic stage. Mollusca is the second-largest phylum of invertebrates after Arthropoda, whose members are referred to as molluscs or mollusks. Sea walnuts are another name for Ctenophora phyla. Ctenophora is marine animals with transparent bodies that are flat or oval. Locusts, Butterfly, Scorpion, and Prawn are all members of the phylum Arthropoda.

81. Option (4) is correct.

Saurashtra won the Ranji Trophy 2019-20, which was contested against Vidarbha. The tournament was held in Rajkot. Arpit Vasavada was named the match winner. For the first time, Chandigarh competed in this tournament. Saurashtra is a Gujarat-based cricket team that has won this trophy for the first time. It was the 86th season of the Ranji Trophy, which began in 1934. It is administered by the BCCI, and Bombay has the most titles won with 41.

82. Option (1) is correct.

By early November, the low-pressure conditions over northwestern India have been transferred to the Bay of Bengal. This shift is linked to the occurrence of cyclonic depressions that form over the Andaman Sea. These cyclones typically cross India's eastern coasts, causing heavy and widespread rain. These tropical cyclones are frequently extremely destructive.

83. Option (3) is correct.

The India Constitution's Preamble was last amended in 1976 by the 42nd Amendment Act. The Act was enacted during the government of Indira Gandhi. It added three new words to the preamble: socialist, secular, and integrity. The 42nd Amendment Act of 1976 is referred to as the mini-constitution. The Indian constitution's preamble is based on the American constitution.

84. Option (4) is correct.

The Lion Capital was originally part of the pillar built by Ashoka, the great Mauryan emperor. The Lion Capital was discovered more than a century ago near Varanasi in Sarnath. It is commonly known as Sarnath Lion Capital. It is one of the finest examples of Mauryan sculpture and was built by Ashoka to commemorate 'Dharmachakrapravartana,' or Buddha's first sermon. The capital has four Asiatic lions seated back to back, with very strong facial muscularity.

85. Option (4) is correct.

The Ganga is also referred to as the Bhagirathi. Ramganga, Gomti, Ghaghara, Gandak, Kosi, and Mahananda are some of Ganga's tributaries on the left bank, and Yamuna, Tamsa, Son, and Punpun on the right bank. The Ganga is India's most important river, both in terms of its basin and cultural significance. It flows from the Gangotri glacier near Gaumukh (3,900 m) in Uttarakhand's Uttarkashi district. It is known as the Bhagirathi in India. It carves narrow gorges through the Central and Lesser Himalayas. The Bhagirathi meets the Alaknanda at Devprayag, where it becomes the Ganga. At Haridwar, the Ganga enters the plains.

86. Option (2) is correct.

On March 30, 2022, Konkan Railway completed 100% rail electrification of its entire stretch. In November 2015, the foundation stone for the electrification of the entire 741 km route work was laid. The Indian government is working on a project called 'Mission 100% Electrification - Moving towards net Zero Carbon Emission' to electrify railways. The Konkan Railway is a railway in India that is run by the Konkan Railway Corporation. It is headquartered in Navi Mumbai, Maharashtra, India, at CBD Belapur. On March 20, 1993, the first passenger train ran between Udupi and Mangalore on Konkan railway tracks.

87. Option (3) is correct.

In 1815, Raja Rammohan Roy established the Atmiya Sabha, a forerunner in Bengal's socio-religious reforms. Members held a debate and discussion sessions on philosophical topics, as well as promoted free and collective thought and social reform. The establishment of the Atmiya Sabha in 1815 is regarded as the beginning of the modern era in Kolkata.

88. Option (2) is correct.

Aparna Satheesan, a Bharatanatyam and Kuchipudi exponent, has received the prestigious National Nritya Shriromani award for her outstanding performance. Extraordinary contribution and outstanding service to the promotion, preservation, and popularisation of Indian performing arts heritage in the field of Kuchipudi dance around the world. Aparna is an outstanding representative of the Kuchipudi dance form and one of India's most dynamic and technically brilliant dancers. Her most recent Bharatanatyam project, AMMA: Journey of a New Mother, has already been a success, receiving numerous accolades from the dance community.

89. Option (1) is correct.

A closure motion is a motion introduced by a member to end debate on a matter before the House. If the motion is approved by the House, the debate is immediately halted and the matter is put to a vote. If the majority of the house agrees, the current debate is adjourned and put to a vote, even if all members have not finished their speeches.

90. Option (2) is correct.

Babur and Rana Sanga fought the Battle of Khanwa. On March 16, 1527, the battle was fought in the village of Khanwa in the Rajasthan district of Bharatpur. Babur was the first Mughal Emperor, and Rana Sanga was Mewar's Rajput ruler. The Battle of Khanwa took place following the Battle of Panipat. Babur's son was Humayun. Akbar, Humayun's son, fought in the Second Battle of Panipat against Hem Chandra Vikramaditya (Hemu). Nasiruddin Nasrat Shah ruled Bengal from 1519 to 1533.

91. Option (1) is correct.

Rig Veda' is the oldest of the Vedas and one of the oldest extant texts in any Indo-European language. The Rig Veda is a collection of ancient Indian texts that includes 1028 Vedic Sanskrit hymns and 10,600 verses devoted to the Rigvedic

deities. It is divided into ten volumes known as mandalas. It is one of the four canonical Hindu holy books known as the Vedas. The 'Rig Veda' describes one of the oldest types of yoga and offers information on yoga and other spiritual disciplines.

92. Option (4) is correct.

Deforestation raises global temperatures and pollution levels by absorbing carbon dioxide from the atmosphere. It raises the concentration of carbon dioxide in the atmosphere. Lower-energy radiation cannot pass through gases like carbon dioxide as easily as higher-energy radiation. So, while it allows a lot of the sun's energy in, it doesn't allow as much radiated energy out. CO₂ vibrates and re-emits infrared energy in all directions as it absorbs this energy. Half of that energy is lost to space, and the other half is returned to Earth as heat, contributing to the 'greenhouse effect.'

93. Option (2) is correct.

From 1773 to 1785, Warren Hastings, an English statesman, was the first Governor of the Presidency of Fort William (Bengal), the head of the Supreme Council of Bengal, and thus the first de facto Governor-General of India. Lord William Bentinck was the first official governor-general of British India, and Lord Mountbatten was the first governor-general of the Dominion of India.

94. Option (2) is correct.

The term 'institutional factors' refers to the specific system of land ownership and management. Agriculture productivity and efficiency are directly affected by ownership and management. In addition to technological advancement, the government has prioritised institutional advancement through land reforms. Land tenure, land tenancy, landholding size, field size, and land reforms are all institutional factors. Irrigation, electricity, roads, credit and marketing, storage, facilities, crop insurance, and research are all infrastructure factors. Electricity is not a factor in the institutional setting.

95. Option (1) is correct.

Uttar Pradesh, with a population of 19.96 crores, is India's most populous state, according to the State Census 2011. Sikkim, with a population of 6,07,688, is the country's least populous state.

96. Option (3) is correct.

Pandit Ram Narayan is credited with popularising the sarangi as a solo concert instrument. He is a Hindustani classical musician who plays the sarangi, a bowed instrument. He was born in the Amber Rajasthan in 1927. A sarangi is a skin-covered resonator bowed stringed instrument.

97. Option (1) is correct.

Milk is an emulsion or colloid of butterfat globules suspended in a water-based fluid containing dissolved carbohydrates, protein aggregates, and minerals. Because of liquid-liquid phase separation, an emulsion is a mixture of two or more liquids that are normally immiscible (unmixable or unblendable). Emulsions are commonly found in egg yolks, butter, and mayonnaise.

98. Option (2) is correct.

After 41 years, the Indian men's hockey team returned to the Olympic podium with a bronze medal in Tokyo 2020 after defeating Germany in the third-place playoff. The significance of the medal cannot be overstated. After dominating world hockey from the 1920s to the 1980s, winning eight golds, one silver, and two bronze medals at the Olympics, India's decline over the next four decades was perplexing.

99. Option (1) is correct.

PV Sindhu of India won the Swiss Open 2022 women's singles title defeating Thailand's Busanan Ongnamrungphan at the St. Jakobshalle arena in Basel. PV Sindhu won the Super 300 title in 49 minutes after winning the final match 21-16, 21-8.

100. Option (3) is correct.

According to the 2011 Census data, Mumbai is the most populous metropolis. Its population is 18,394,392 followed by Delhi, Kolkata, and Chennai. According to the Census of India 2011 some of India's major metropolitan cities include Mumbai (more than 18 Million) Delhi (over 16 million people) Kolkata (more than 14 Million). With 16.5% of the country's population, Uttar Pradesh is India's most populous state. Bihar and Maharashtra are the other two states with populations exceeding 100 million. Lakshadweep is the UT with the least people. The Census of 1872 was India's first census. It is held every ten years.