Time Allotted- 1.5 hours   **Max marks-** 100

Important Instructions:-
- This paper contains 100 questions which are divided into 4 sections. Each section contains 25 questions.
  - General Intelligence & Reasoning
  - General Knowledge & General Awareness
  - Elementary Mathematics
  - English
- There will be 1 mark for each correct answer and also there will be negative marking of 0.25 marks for each wrong answer.
- Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General Intelligence & Reasoning

1. Select the option that is related to the third number in the same way as the second number is related to the first number.
   9 : 100 :: 13 : ____
   1. 196   **2.** 130   **3.** 169   **4.** 144

2. If D = 3, G = 6, and FUN = 38, then PRESIDENT = _____.
   1. 100   **2.** 110   **3.** 119   **4.** 101

3. Select the number-pair that is different from the rest.
   1. 7 – 345   **2.** 5 – 125   **3.** 3 – 27   **4.** 9 – 729

4. U, V, W, X, Y and Z are seated in a circle facing the centre such that each one is facing another one. X is between Z and V. U is second to the left of X and second to the right of Y. Who is facing X?
   1. Y   **2.** Z   **3.** W   **4.** U

5. Diya have five subjects in her academics namely A, B, C, D and E. She studies them from Monday to Friday of a week. On each day, only one subject will be studied. D or E should not be either the first or last to be studied. E should be immediately followed by C. B should be studied immediately after D. One subject will be studied between A and B. Then which subject she immediately reads after Monday?
   1. A   **2.** D   **3.** E   **4.** B

6. Select the option that is related to the third term in the same way as the second term is related to the first term.
   Where : Place :: When : _____
   1. Time   **2.** Then   **3.** There   **4.** Why

7. Select the Venn diagram that best illustrates the relationship between the three given classes.
   Flowers, Red, Clothes

   1.   **2.**   **3.**   **4.**

8. The statements below are followed by three conclusions labeled I, II and III. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.
   Statements:
   All balls are boats.
   All boats are cars.

Conclusions:
   I. Some cars are balls.
   II. All balls are cars.
   III. All cars are balls.
   1. Only conclusion III follows.
   2. All the conclusions follows.
   3. Only conclusions I and II follow.
   4. Only conclusions II and III follow.

9. Four pairs of words have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.
   1. Cock : Hen   **2.** Brother : Sister
   3. Bear : Cub   **4.** Lion : Lioness

10. Select the option in which the given figure is embedded.

    1.   **2.**   **3.**   **4.**

11. Select the number that DOES NOT belong to the following group.
    3, 6, 9, 12, 15, 18, 21, 24, 28, 30
    1. 30   **2.** 28   **3.** 18   **4.** 15

12. A square transparent sheet with a pattern is given. Select from among the four alternatives how the pattern would appear when the transparent sheet is folded at the dotted line.

    1.   **2.**   **3.**   **4.**

13. If SQUARE is coded as TSXEWK, then TRIANGLE will be coded as _____.
    1. UTLESMSN   **2.** UTLFSMSM
    3. UTLESMSM   **4.** UTLESNSM

14. Identify the odd one from the following.
    1. CFG   **2.** PRT   **3.** VXZ   **4.** HJL

15. In the following number series, two numbers have been put within brackets. Study the series carefully and select the correct alternative with respect to the series.
    1, 1, 2, 6, 24, (121), 720, (5040), 40320
    1. Both the bracketed numbers are correct.

2. The first bracketed number (from the left) is incorrect and the second is correct.

3. The first bracketed number (from the left) is correct and the second is incorrect.

4. Both the bracketed numbers are incorrect.

16. Read the given statements and conclusion carefully and decide which of the following options is true with respect to the given conclusion.
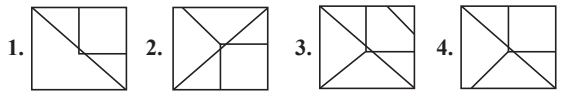
Statements:

The Gateway of India is in Mumbai.

Mumbai is in India.

Conclusion:

The Gateway of India is in India.

1. True　　　　　　　　**2.** Probably false

3. Probably true　　　　**4.** False

17. Select the correct option to complete the following pattern.

1.　**2.**　**3.**　**4.**

18. Choose the option that most closely resembles the mirror image of the given word when mirror is placed at right side.

AIM

1. AIW　　**2.** AIM　　**3.** MIA　　**4.** WIA

19. Select the term that will come in the following series.

PC, RF, TI, VL, XO, ____.

1. YR　　**2.** YQ　　**3.** ZR　　**4.** ZQ

20. Select the figure that will come next in the following series.

1.　**2.**　**3.**　**4.**
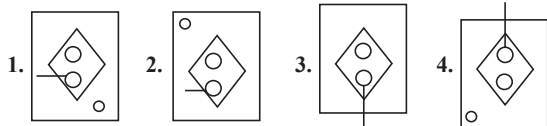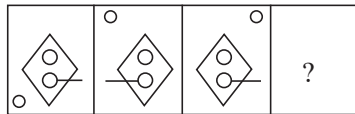
21. Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

1. Volume　**2.** Volt　**3.** Force　**4.** Power

22. Select the word-pair that is analogous to the given word-pair.

France : Paris

1. India: Mumbai　　　　**2.** Iran : Rial

3. China : Yuan　　　　**4.** Cuba : Havana

23. Select the fraction that will come next in the following series.

$$\frac{2}{3}, \frac{4}{5}, \frac{6}{7}, \frac{8}{9}, \frac{10}{11}, \frac{12}{13}, \underline{\quad}$$

1. $\frac{14}{16}$　**2.** $\frac{13}{15}$　**3.** $\frac{13}{14}$　**4.** $\frac{14}{15}$

24. Six friends, P, Q, R, S, T and U, are sitting in a closed circle facing the centre such that each one is facing another one. P is facing S. R is between P and Q. U is between P and T who is sitting right of S. Who is sitting to the immediate right of R.

1. Q　　**2.** T　　**3.** S　　**4.** P

25. Which two signs need to be interchanged to make the given equation correct?

$100 \div 10 \times 100 - 10 + 100 = 910$

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

General Knowledge & General Awareness

26. Which among the following is the longest river in South India?

1. Godavari　　　　**2.** Krishna

3. Narmada　　　　**4.** Tungabhadra

27. The Consumer Protection Bill, 2018 has replaced the Consumer Protection Act of which of the given years?

1. 1978　**2.** 1986　**3.** 1981　**4.** 1991

28. The movement of a horse drawn carriage is an example of which principle of physics?

1. Archimedes principle

2. Avogadro's law

3. Newton's third law of motion

4. Ohm's law

29. Which mountain pass in the world has the highest motorable road in the world?

1. Jelep-La　　　　**2.** Nathu-La

3. Dhungria-La　　　**4.** Shipki-La

30. In which layer of the earth's atmosphere is the ozone layer found?

1. Mesosphere　　　**2.** Troposphere

3. Stratosphere　　　**4.** Exosphere

31. Which famous Indian personality is the founder of 'Paani Foundation'?

1. Amir Khan　　　　**2.** Ranveer Singh

3. Shah Rukh Khan　　**4.** Salman Khan

32. 'Vijay Amritraj' was a legendary Indian player associated with which of the following sports?

1. Swimming　　　　**2.** Badminton

3. Rifle shooting　　　**4.** Lawn tennis

33. Which city will host the upcoming Winter Olympic Games scheduled in 2022?

1. Beijing　　　　　**2.** Paris

3. Los Angeles　　　**4.** Tokyo

34. What was the capital of the French colony in India?

1. Pondicherry　　　**2.** Cochin

3. Calicut　　　　　**4.** Goa

35. Who is the cofounder of IndiGo Airlines?

1. Y C Deveshwar　　**2.** Kiran Majumdar Shaw

3. Rahul Bhatia　　　**4.** Pawan Munjal

36. 'Talatal Ghar' is a historical monument situated in which of the following Indian states?

1. Sikkim　**2.** Odisha　**3.** West Bengal　**4.** Assam

37. The National Food Security Act was passed in which of the following years?

1. 2013　**2.** 2014　**3.** 2011　**4.** 2012

38. What is India's rank in the World Bank's Human Capital Index (HCI) rankings as of Feb 2019?

1. 126　**2.** 104　**3.** 124　**4.** 115

39. As of January 2019, what is the number of articles in the Indian Constitution?

1. 402　**2.** 395　**3.** 431　**4.** 448

40. Riboflavin present in fish is also known as:

1. Vitamin B2　　　　**2.** Vitamin K

3. Vitamin B12　　　**4.** Vitamin C

41. With the commencement of the 7th century, who ascended the throne of Thaneshwar and Kannauj?

1. ChandraGupta II　　**2.** Harshavardhana

3. Krishnadeva　　　**4.** Rajendra Chola I

42. As on 2018, which is the world's largest political party in terms of primary membership?

1. The Democratic Party of the US

2. National Republican Party US

3. The Bharatiya Janta Party
4. The Conservative Party of UK

43. The production of a commodity through natural process is an activity associated to which sector of the Indian Economy?
1. Quaternary **2.** Tertiary   **3.** Primary   **4.** Secondary

44. 'Azadirachta indica' is the botanical name of which evergreen tree found in the Indian sub-continent?
1. Pine tree   **2.** Curry tree
3. Hibiscus tree   **4.** Margosa tree

45. 'Tulsidas', a poet who lived during the medieval times of Indian history, wrote 'Ramcharitmanas' in which of the following languages?
1. Sanskrit   **2.** Prakrit   **3.** Pali   **4.** Awadhi

46. Fiscal policy is based on the economic theory given by which of the following economist?
1. John Nash   **2.** John Maynard Keynes
3. Milton Friedman   **4.** Adam Smith

47. Which disease among the given options spreads via pigs?
1. Zika   **2.** Nipah   **3.** Swine flu   **4.** Plague

48. The festival of 'Hareli' is celebrated in which of the following Indian states?
1. Punjab   **2.** Chhattisgarh
3. Madhya Pradesh   **4.** Odisha

49. 'The Legend of Laxmi Prasad' was the title of a book written by which one of the following authors?
1. Shobha De   **2.** Jhumpa Lahiri
3. Twinkle Khanna   **4.** Arundhati Roy

50. 'Theyyam' is a popular dance form of which of the following states?
1. Manipur   **2.** Kerala   **3.** Karnataka   **4.** Gujarat

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Elementary Mathematics

51. 'A' pipe can empty a tank in 20 minutes. The second pipe 'B' has a diameter twice as that of 'A'. If both A & B pipe are attached to the tank how much time will be required to empty the tank?
1. $6\frac{2}{3}$ minutes   **2.** 15 minutes
3. 25 minutes   **4.** $10\frac{1}{2}$ minutes

52. The distance between two stations is 500 km. A train starts from station 'A' at 9 am and travels towards station 'B' at 60 km/hrs. Another train starts from station 'B' at 10 am and travels towards 'A' at 40 km/hrs. At what time both the train meet to each other.
1. 2.24 pm   **2.** 1.36 pm   **3.** 3.36 pm   **4.** 12.45 pm

53. The compound interest on an amount for 2 years at 5% per annum compounded annually is ₹205, The simple interest is:
1. ₹210   **2.** ₹220   **3.** ₹200   **4.** ₹250

54. Study the Table Properly and answer by interpreting the data. 'The table shows the percentage population of five districts in a state below poverty line and the proportion of males and females.

District	Percentage of population below poverty line	Proportion of Male and Female	
		Below poverty line (M:F)	Above poverty line (M:F)
D1	15	2:3	3:2
D2	18	3:4	7:5
D3	20	2:5	3:4

| D4 | 25 | 5:2 | 4:3 |
| D5 | 12 | 3:7 | 2:7 |

If the total population in the district D_3 is 40,000, then what is the population of below poverty line in the district D_3?
1. 12,000   **2.** 5,000   **3.** 10,000   **4.** 8,000

55. The areas of two squares are 16:9. The ratio of their perimeter is:
1. 9 : 16   **2.** 12 : 16   **3.** 9 : 12   **4.** 16 : 12

56. In how many years, a sum will be thrice of it at the rate of interest 5% per annum?
1. 25 years   **2.** 30 years   **3.** 20 years   **4.** 40 years

57. The value of 25 of $4 - 30 + (2^2 + 18)$ is:
1. 37   **2.** 92   **3.** 84   **4.** 23

58. In a university, the number of students studying science, mathematics and language are in the ratio of 2:4:9. If the number of students in Science, Mathematics and Language be increased 10%, 20% and 40% respectively. What will be the new ratio?
1. 24 : 11 : 63 **2.** 63 : 11 : 24 **3.** 12 : 23 : 63 **4.** 11 : 24 : 63

59. Study the Table Properly and answer by interpreting the data. The table shows the percentage population of five districts in a state below poverty line and the proportion of males and females.

District	Percentage of population below poverty line	Proportion of Male and Female	
		Below poverty line (M:F)	Above poverty line (M:F)
D1	15	2:3	3:2
D2	18	3:4	7:5
D3	20	2:5	3:4
D4	25	5:2	4:3
D5	12	3:7	2:7

The total population in D_1 is 30,000. The number of female under below poverty line in the district D_1 is:
1. 2500   **2.** 3500   **3.** 2700   **4.** 1800

60. Two numbers are 20% and 40% more than the third number respectively. The ratio of the first and second number is:
1. 5 : 7   **2.** 7 : 5   **3.** 6 : 7   **4.** 7 : 6

61. The HCF and LCM of two numbers are 12 and 240 respectively. If one of the number is 24, what is the another number.
1. 144   **2.** 120   **3.** 228   **4.** 264

62. The Area of a rectangle is 27 m² and its length is 3 times of its breadth. The perimeter of the rectangle is:
1. 28 cm   **2.** 12 cm   **3.** 24 cm   **4.** 42 cm

63. Rama and Hari can together finish a piece of work in 15 day. Rama works twice as fast as Hari, then Hari alone can 3 finish work in:
1. 30 days   **2.** 45 days   **3.** 20 days   **4.** 25 days

64. By Selling a TV for ₹8500 a person loses 15%. In order to gain of 5%, Selling price of TV should be:
1. ₹10,000   **2.** ₹10,500   **3.** ₹9,000   **4.** ₹9,500

65. A trader allows two successive discounts of 5% each on the marked price of a sofa set for ₹24,500. The selling price of sofa set is
1. ₹1,163.75 **2.** ₹23,274.75 **3.** ₹23,275 **4.** ₹22,111.25

66. A train is moving at 72 km/hrs. The distance covers in 15 minutes by the train is:
1. 28 km   **2.** 36 km   **3.** 18 km   **4.** 27 km

67. The difference between upper limit and lower limit of the class interval is called as:
    1. Frequency distribution   2. Range
    3. Mode   4. Class size

68. A wheel makes 4000 revolution is covering a distance of 60 km. The radius of the wheel is:
    1. 4.68 m   2. 2.39 m   3. 8 m   4. 8.25 m

69. In class IX, the average of marks in science for six students was 48. After result declared, it was found in case of one student, the marks 45 were misread as 54. The correct average is:
    1. 64.39   2. 76.50   3. 46.40   4. 46.50

70. If $(x + y) : (x - y) = 3 : 2$ then $(x^2 + y^2) : (x^2 - y^2)$ is in the ratio of:
    1. 24 : 5   2. 5 : 12   3. 13 : 12   4. 12 : 13

71. Shopkeeper selling on article for ₹46 loses 8% In order to gain of 6%, what should be the selling price of the article?
    1. ₹85   2. ₹53   3. ₹65   4. ₹56

72. The value of $30 \div 6 \times 5$ of $(2 + 3) - 12 (3 \times 2)$ is equal to:
    1. 53   2. 82   3. 28   4. 35

73. Two numbers are less than a third number by 25% and 36% respectively. The percentage of first number less than second number is:
    1. 14%   2. 11%   3. 52%   4. 61%

74. In a class, the average age of 40 students is 12 years when teacher's age is included to it, the average increases by 1. The age of teacher is:
    1. 53 years   2. 48 years   3. 51 years   4. 68 years

75. Study the Table Properly and answer by interpreting the data. The table shows the percentage population of five districts in a state below poverty line and the proportion of males and females.

District	Percentage of population below poverty line	Proportion of Male and Female	
		Below poverty line (M:F)	Above poverty line (M:F)
D1	15	2:3	3:2
D2	18	3:4	7:5
D3	20	2:5	3:4
D4	25	5:2	4:3
D5	12	3:7	2:7

If the total population of district D_4 is 35000, then what is the number of females above the poverty line in the district D_4?
    1. 11,250   2. 14,240   3. 10,500   4. 12,450

English

76. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.
    On the academic front you are likely to outshine others and take up a better career.
    1. you are likely for outshine other
    2. you should likely to outshine others
    3. No improvement
    4. you were likely to outshine others

77. Select the synonym of the given word.
    AFFINITY
    1. Monotony   2. Empathy   3. Beauty   4. Decency

78. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.
    Those who are travelling today by train may have delayed in reaching their destinations.
    1. No improvement
    2. travelling today in train may get delayed
    3. travelling today by train may get delayed
    4. travel today by train may get delayed

79. Select the word which means the same as the group of words given.
    One who does a thing for pleasure and not as a profession
    1. Volunteer   2. Amateur
    3. Athlete   4. Sportsperson

80. From the given options, identify the segment in the sentence which contains the grammatical error:
    In India, the various practices and norms from bank's transactions are laid down by the RBI only.
    1. the various practices
    2. norms from bank's transactions
    3. are laid down
    4. by the RBI only

81. Select the antonym of the given word.
    CONVENE
    1. Gather   2. Disperse   3. Request   4. Summon

82. Select the correctly spelt word.
    1. Suplementary   2. Suppllementary
    3. Supplementery   4. Supplementary

83. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement
    'Statistical measure which track the money-saving behaviour haven't improved much.
    1. measures which track the money-saving behaviour
    2. measure which tracks money-saving behaviours
    3. No improvement
    4. measures what track the money-saving behaviour

84. Select the synonym of the given word.
    CUMBERSOME
    1. Heavy   2. Graceful   3. Virtuous   4. Wonderful

85. Select the antonym of the given word.
    CONCUR
    1. Distribute   2. Lead   3. Disagree   4. Contribute

86. Select the most appropriate word to fill in the blank.
    Your parents may get _____ with your lifestyle and demand a change in it.
    1. fulfilled   2. satisfied   3. annoyed   4. pleased

Comprehension:
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.
"Success begins in the mind." This is a wonderful quote to explain the power of having (1) _____ in yourself. Since (2) _____ wants success, they all try their best. Sometimes they will (3) _____ failure, but that's what life is. Ups and downs are a part of it. All you need is to take that failure in your (4) _____ learn from it and never forget it. It doesn't matter how or where you come from, success happens to those who (5) _____ hands with difficulties.

87. Select the most appropriate option that will fill in the blank number 1.
    1. discard   2. disgust   3. faith   4. doubt

88. Select the most appropriate option that will fill in the blank number 2.
   1. everyone   2. anyone   3. someone   4. each
89. Select the most appropriate option that will fill in the blank number 3.
   1. oppose   2. see   3. clash   4. encounter
90. Select the most appropriate option that will fill in the blank number 4.
   1. run   2. walk   3. wing   4. stride
91. Select the most appropriate option that will fill in the blank number 5.
   1. move   2. see   3. avoid   4. shake
92. From the given options, identify the segment in the sentence which contains the grammatical error.
   While we would like all Indian children to go to school, we need to ponder why they does not.
   1. While we would like
   2. Indian children to go to school
   3. we need to ponder
   4. why they does not
93. Select the most appropriate word to fill in the blank.
   You can master anything by the usual process of learning and practicing it _____.
   1. regularly   2. temporarily
   3. occasionally   4. annually
94. Select the word which means the same as the group of words given.
   A person who is indifferent to the pains and pleasures of life.
   1. Solitary   2. Introvert   3. Stoic   4. Social

95. Select the option that means the same as the given idiom.
   Call it a day
   1. Disagreeing on everything someone is saying
   2. Decide or agree to stop doing something
   3. Agreeing to reveal some secret information
   4. Attempting to do an impossible task
96. Select the option that means the same as the given idiom.
   To hand together
   1. To be connected with each other
   2. to take a swing in a garden
   3. To keep holding on to something
   4. To be over telephone with a friend
97. Select the correctly spelt word.
   1. Budget   2. Bugett   3. Budjet   4. Badjet
98. Select the most appropriate option to fill in the blank.
   Whenever he refers to his friends he is pleased but when he talks of his foes he is _____.
   1. interested   2. possessed   3. unhappy   4. serene
99. From the given options, identify the segment in the sentence which contains the grammatical error.
   You are invite to build a better community by planting a seed of peace within and a tree outside.
   1. build a better community   2. by planting a seed of peace
   3. within and a tree outside   4. You are invite to
100. Select the most appropriate option to fill in the blank.
   My forefinger is still _____ where I caught it in the door this morning.
   1. bruised   2. burnt   3. scorched   4. damaged

Answer Key

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

Answers with Explanations

1. **Option (1) is correct.**
   Given that: 9 : 100 :: 13 : ?
   The pattern followed here is:-
   $(1^{st}\text{ number} + 1)^2 = 2^{nd}\text{ number}$
   9 + 1 = 10;
   $(10)^2 = 100$
   Similarly,
   13 + 1 = 14;
   $(14)^2 = 196$
   Hence, 196 is the correct answer.

2. **Option (4) is correct.**
   Given that: D = 3, G = 6 and FUN = 38
   The pattern followed here is:
   Sum of positional values of given letter – No. of letters
   So,
   D = 4 – 1 = 3

G = 7 – 1 = 6
FUN = (6 + 21 + 14)(–3)
      = 41 – 3 = 38
Similarly;
PRESIDENT = (16 + 18 + 5 + 19 + 9 + 4 + 5 + 14 + 20) – 9
           = 110 – 9 = 101
Hence, 101 is the correct answer.

3. **Option (1) is correct.**
   The pattern followed here is:
   $(1^{st}\text{ term})^3 = 2^{nd}\text{ term}$
   So,
   $(7)^3 = 343 \neq 345$
   $(5)3 = 125$
   $(3)2 = 27$
   $(9)3 = 729$
   Hence, 7 – 345 is the odd one out.

4.   Option (3) is correct.
According to the question, following sitting arrangement can be made:
Hence, W is facing X.
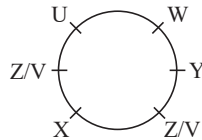
5.   Option (3) is correct.
Given that: Five subjects - A, B, C, D and E
Days – Monday to Friday.
According to the question, following arrangement can be made:
Monday – C
Tuesday – E
Wednesday – A
Thursday – D
Friday – B
Hence, she will read subject E immediately after Monday.

6.   Option (1) is correct.
Given that: Where : Place :: When : ?
Here, 'Where' is a term which is used when someone asks about a place or location.
Similarly, 'When' is a term which is used when someone asks about specific time or period.
Hence, Time is the correct answer.

7.   Option (1) is correct.
Given classes: Flowers, Red, Clothes.
Here, flowers and clothes venn diagram for these classes is:
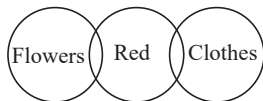
8.   Option (3) is correct.
According to the question, following Venn diagram can be made:
Conclusion I - Some cars are balls - True.
Conclusion II - All balls are cars - True.
Conclusion III - All cars are balls - False.
Hence, only conclusion I and II follow.
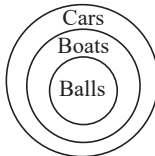
9.   Option (3) is correct.
Here, the pair of words given are opposite in gender i.e., male – female.
So,
Cock is male, Hen is female.
Brother is male, sister is female.
Lion is male, lioness is female.
But, Bear could be either male or female and a cub is a young bear which is also can be either male or female.
Hence, Bear : Cub is the odd one out.

10.   Option (2) is correct.
The given image is embedded in option(2) as highlighted below:
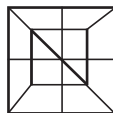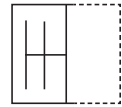

11.   Option (2) is correct.
Given series: 3, 6, 9, 12, 15, 18, 21, 24, 28, 30.
Here, the series belongs to the multiples of 3.
So,
$3 \times 1 = 3$
$3 \times 2 = 6$
$3 \times 3 = 9$
$3 \times 4 = 12$
$3 \times 5 = 15$
$3 \times 6 = 18$

$3 \times 7 = 21$
$3 \times 8 = 24$
$3 \times 9 = 27 \neq 28$
$3 \times 10 = 30$
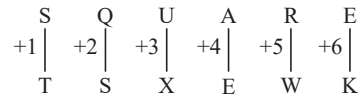Hence, 28 does not belongs to the group.

12.   Option (3) is correct.
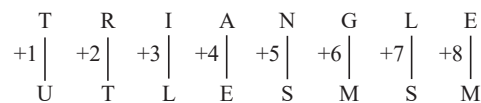After folding the paper it would appear as follows:-

13.   Option (3) is correct.
Given that: SQUARE is coded as TSXEWK
The pattern followed here is:

S	Q	U	A	R	E
+1	+2	+3	+4	+5	+6
T	S	X	E	W	K

Similarly,

T	R	I	A	N	G	L	E
+1	+2	+3	+4	+5	+6	+7	+8
U	T	L	E	S	M	S	M

Hence, UTLESMSM is the correct answer.

14.   Option (1) is correct.
The pattern followed here is:

Option 1)   C $\xrightarrow{+3}$ F $\xrightarrow{+1}$ G
Option 2)   P $\xrightarrow{+2}$ R $\xrightarrow{+2}$ T
Option 3)   V $\xrightarrow{+2}$ X $\xrightarrow{+2}$ Z
Option 4)   H $\xrightarrow{+2}$ J $\xrightarrow{+2}$ L

Hence, CFG is the odd one out.

15.   Option (2) is correct.
Given series: 1, 1, 2, 6, 24, (121), 720, (5040), 40320
The pattern followed here is:
$1 \times 1 = 1$
$1 \times 2 = 2$
$2 \times 3 = 6$
$6 \times 4 = 24$
$2 \times 5 = 120 \neq 121$
$120 \times 6 = 720$
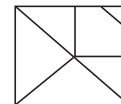$720 \times 7 = 5040$
$5040 \times 8 = 40320$
So, the first bracketed number (from the left) is incorrect and the second is correct.

16.   Option (1) is correct.
As the gateway of India is in Mumbai and Mumbai is in India, it implies that the gateway of India is in India.
Hence, the conclusion is true.

17.   Option (3) is correct.
The following image will complete the series:

18.   Option (3) is correct.
In the mirror image, left becomes right and right becomes left.
The required answer image is:
MIA

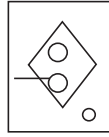**19.   Option (3) is correct.**
Given that: PC, RF, TI, VL, XO, ___.
The pattern followed here is:

$$
\begin{array}{cc}
\text{P} & \text{C} \\
+2\Big| & +3\Big| \\
\text{R} & \text{F} \\
+2\Big| & +3\Big| \\
\text{T} & \text{I} \\
+2\Big| & +3\Big| \\
\text{V} & \text{L} \\
+2\Big| & +3\Big| \\
\text{X} & \text{O} \\
+2\Big| & +3\Big| \\
\text{Z} & \text{R}
\end{array}
$$

Hence, ZR is the correct answer.

20. Option (1) is correct.

According to the pattern followed and the symmetry, the required answer figure is;-

21. Option (2) is correct.

In the given options volume, force and power are all related to physical quantities and measurements.
On the other hand, Volt is a unit of electrical potential difference.
Hence, Volt is the odd one out.

22. Option (4) is correct.

Given that: France : Paris
Here, France is a country and Paris is it's capital.
Similarly, In option(4), Cuba is a country and Havana is it's capital.

23. Option (4) is correct.

Given series: $\dfrac{2}{3}, \dfrac{4}{5}, \dfrac{6}{7}, \dfrac{8}{9}, \dfrac{10}{11}, \dfrac{12}{13}, - - -$

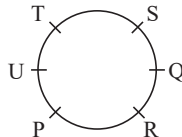Here, numerator and denominator both are increasing by 2 values.
So, 12 + 2 = 14 and 13 + 2 = 15.

Hence, $\dfrac{14}{15}$ is the correct answer.

24. Option (1) is correct.

According to the question, following sitting arrangements can be made:
Hence, Q is sitting to the immediate right of R.

25. Option (4) is correct.

Given equation: $100 \div 10 \times 100 - 10 + 100 = 910$
Upon checking option(4) and interchanging + and –, we get:
$100 \div 10 \times 100 - 10 + 100 = 910$
$\Rightarrow 10 \times 100 + 10 - 100 = 910$
$\Rightarrow 1000 + 10 - 100 = 910$
$\Rightarrow 1010 - 100 = 910$
$\Rightarrow 910 = 910$
LHS = RHS

26. Option (1) is correct.

The Godavari River is the longest in South India and is commonly known as the "Dakshin Ganga." Originating in the central region of India, it flows eastward, passing through multiple states, and ultimately emptying into the Bay of Bengal.

27. Option (2) is correct.

The Consumer Protection Bill, of 2018 replaced the Consumer Protection Act of 1986. The new bill aims to enhance consumer rights and address contemporary challenges in the consumer protection landscape.

28. Option (3) is correct.

Newton's third law of motion declares that every action is met with an equal and opposite reaction. In the case of a horse-drawn carriage, when the horse applies force to the ground (action), the ground responds with an equal and opposite force on the horse (reaction), driving the carriage forward. This principle is essential for comprehending the dynamics of motion.

29. Option (3) is correct.

Among the options, the Dungri La Pass has the highest motorable mountain road in the world. Dungri La, also known as Mana Pass, is a motorable mountain road that connects India and Tibet through the Zanskar mountain range. It's located at the border between the two countries in the state of Uttarakhand.

30. Option (3) is correct.

The ozone layer is mainly located in the Earth's stratosphere, the second significant layer of the atmosphere. Positioned above the troposphere, it extends roughly 10 to 50 kilometres above the Earth's surface. This layer is vital for absorbing the majority of the sun's harmful ultraviolet (UV) radiation.

31. Option (1) is correct.

Aamir Khan is the founder of the 'Paani Foundation,' a non-profit organization dedicated to watershed management and water conservation in Maharashtra, India. The acclaimed Indian actor actively participates in a range of social and environmental initiatives.

32. Option (4) is correct.

Vijay Amritraj is a legendary Indian player associated with lawn tennis. He is renowned for his contributions to the sport, achieving success as a tennis player and making a significant impact in the field.

33. Option (1) is correct.

Beijing, China hosted the 2022 Winter Olympics from February 4–20, 2022. Beijing became the first city to host both the Summer and Winter Olympics in 2022.

34. Option (1) is correct.

Pondicherry, alternatively known as Puducherry, served as the capital of the French colonial territory in India. It retained its status as a French colonial settlement until its integration into the Indian Union in 1954.

35. Option (3) is correct.

Rahul Bhatia is an Indian businessman. He co-founded IndiGo Airlines with Rakesh Gangwal in 2006. IndiGo Airlines commenced operations on August 4, 2006. The headquarters of IndiGo Airlines are in Gurugram, Haryana. IndiGo is India's largest airline by market share.

36. Option (4) is correct.

Talatal Ghar is a historical monument in Assam, India. It is an 18th-century palace and military base in Rangpur. The monument is an example of Tai Ahom architecture and is the largest of all Tai Ahom monuments.

37. Option (1) is correct.

The National Food Security Act (NFSA) was approved on July 5, 2013. It aimed to improve food security for the people. It legalized the right to food for roughly three-quarters of the rural population and half of the urban population. It ensures food security by providing grains and pulses at subsidised prices, which are given to the general public via the Targeted Public Distribution System. The Chhattisgarh government was the first to take the initiative and establish the country's first food security act.

38. Option (4) is correct.
India held the 115th position among 157 countries in 2019. In 2020, its rank slightly dropped to 116th out of 174 countries.

39. Option (2) is correct.
As of January 2019, the Indian Constitution has 395 articles. Currently, the constitution includes a preamble and 470 articles divided into 25 parts. The constitution is the supreme law of India. It is a document that contains laws governing the political structures, authorities, and obligations of the government. It contains fundamental rights, directive principles, and citizens' duties. The Indian constitution is the largest in the world. It was enacted by the Constituent Assembly of India on November 26, 1949, and went into effect on January 26, 1950.

40. Option (1) is correct.
Riboflavin, also known as vitamin B2, is a water-soluble vitamin found in fish. It's one of eight B vitamins, which help the body convert food into energy. Riboflavin is also an antioxidant that helps the immune system and keeps skin and hair healthy.

41. Option (2) is correct.
During the early 7th century, Harshavardhana took the throne of Thaneshwar and Kannauj, ruling from 606 to 647 CE. A prominent leader in the Indian subcontinent, he played a crucial role in shaping the political dynamics of his era.

42. Option (3) is correct.
The Bharatiya Janata Party (BJP), based in India, holds the distinction of being the world's largest political party by primary membership.

43. Option (3) is correct.
The primary sector encompasses activities related to natural resources and raw materials, such as agriculture, forestry, fishing, and mining.

44. Option (4) is correct.
The evergreen tree commonly recognized as the Margosa tree in the Indian subcontinent is scientifically identified by the botanical name 'Azadirachta indica.'

45. Option (4) is correct.
Tulsidas, a poet from medieval Indian history, composed "Rameharitmanas" in the Awadhi language.

46. Option (2) is correct.
The economic theory that forms the basis of fiscal policy was developed by the economist John Maynard Keynes.

47. Option (3) is correct.
Swine flu, also known as H1N1 influenza, is a respiratory illness caused by the H1N1 influenza A virus. It is called "swine flu" because the virus was initially discovered in pigs. The virus can infect humans, and human-to-human transmission occurs through respiratory droplets produced when an infected person coughs or sneezes.

48. Option (2) is correct.
The inaugural celebration of the Chhattisgarh region's 'Hareli' festival was marked with joy. Recognized as the primary festival of Chhattisgarh, Hareli is observed annually on Hareli Amavasya during the month of Sawan, holding particular importance for the farmers in the region.

49. Option (3) is correct.
The Legend of Lakshmi Prasad is a book written by Twinkle Khanna. The book was published in 2016 and is a collection of four short stories about feminism.

50. Option (2) is correct.
'Theyyam' stands as a well-known dance form originating from the state of Kerala. It represents a traditional ritual dance, characterized by a distinctive fusion of dance, music, and religious components, and is predominantly enacted in the Malabar region of Kerala.

51. Option (1) is correct.
Given that Pipe A can empty the tank in = 20 min
So, Pipe B will empty the tank in = 10 min
Let the capacity of tank = LCM(10, 20) = 20 l

Efficiency of pipe A = $\dfrac{20}{20}$ = 1 l/min

Efficiency of pipe B = $\dfrac{20}{10}$ = 2 l/min

So, required time when both the pipes are attached

= $\dfrac{20}{2+1}$ = $6\dfrac{2}{3}$ mins

52. Option (1) is correct.
Given that, distance between the stations = 500 km
Speed of train 1 from station A = 60 km/h
Speed of train 2 from station B = 40 km/h
According to the question,
Distance travelled by train 1 in 1 hour = 60 km
So, remaining distance between the trains = 500 – 60 = 440 km
Now, required time by both trains to cover this distance =
$\dfrac{440}{60+40} = \dfrac{22}{5}$ hr = 4 hr 24 mins
Hence, exact time = 10 am + 4hr 24 min = 2:24 pm

53. Option (3) is correct.
Let the principal invested = P

So, CI = $P\left(1+\dfrac{r}{100}\right)^2 - P$

$\Rightarrow 205 = P\left[\left(1+\dfrac{5}{100}\right)^2 - 1\right]$

$\Rightarrow 205 = P \times \dfrac{41}{400}$

$\Rightarrow P = 2000$

Now, SI = $\dfrac{2000 \times 5 \times 2}{100} = 200$

54. Option (4) is correct.
Given that population of district D3 = 40000

So, the population below poverty line = $40000 \times \dfrac{20}{100} = 8000$

55. Option (4) is correct.
Let the sides of squares are x cm and y cm respectively.

According to the question, $\dfrac{x^2}{y^2} = \dfrac{16}{9}$

So, $\dfrac{x}{y} = \dfrac{4}{3}$

Now, ratio of their perimeter = $\dfrac{4x}{4y} = \dfrac{x}{y} = \dfrac{4x^4}{4x^3} = \dfrac{16}{12}$

56. Option (4) is correct.
Let the principal amount invested = ₹ P
And time required to make the sum thrice = t
Simple interest earned to the sum thrice = 3P – P = 2P
According to the question,
$2P = \dfrac{P \times 5 \times T}{100}$
$\Rightarrow t = 40$ years

57. Option (2) is correct.
The value of 25 of 4 – 30 + (2² + 18),

= 25 of 4 – 30 + 22
= 100 – 30 + 22
= 92

58.   Option (4) is correct.
Given that,
The ratio between the number of students studying science, mathematics and language = 2 : 4 : 9
Let the number of students studying science = $2x$
And the number of students studying mathematics = $4x$
And the number of students studying science = $9x$
According to the question,
Required ratio = $2x \times \dfrac{110}{100} : 4x \times \dfrac{120}{100} : 9x \times \dfrac{140}{100}$
= 11 : 24 : 63

59.   Option (3) is correct.
Given that,
The population of D1 = 30000
So, population below poverty line = $30000 \times \dfrac{15}{100} = 4500$
Hence, the number of females below poverty line
= $4500 \times \dfrac{3}{5} = 2700$

60.   Option (3) is correct.
Let's denote the third number as x
The first number is 20% more than the third number, so it is $x + 0.20x = 1.20x$
The second number is 40% more than the third number, so it is $x + 0.40x = 1.40x$
Therefore, the ratio of the first number to the second number is: $1.20/1.40x = 12/14 = 6/7$
So, the ratio of the first number to the second number is 6 : 7

61.   Option (2) is correct.
Using,
HCF × LCM = 1st number × 2nd number
⇒ 12 × 240 = 24 × 2nd number
⇒ 2nd number = 120

62.   Option (3) is correct.
Let the breadth of rectangle = x m
So, the length of rectangle = $3x$ m
According to the question,
Area of rectangle = 27 = $x \times 3x$
⇒ x = 3 m
So, the perimeter = 2(3 + 9) = 24 m

63.   Option (2) is correct.
Let the efficiency of Hari = 1 unit per day
So, the efficiency of Rama = 2 units per day
Given that the together finish the work in = 15 days
Let the total work = 15(1 + 2) = 45 units
So, required time taken by Hari alone = $\dfrac{45}{1}$ = 63 days

64.   Option (2) is correct.
Given that the selling price of TV = ₹ 8500
Loss percentage = 15%
So, CP = $8500 \times \dfrac{100}{85} = 10000$
Required selling price = $10000 \times \dfrac{105}{100}$ = ₹ 10500

65.   Option (4) is correct.
Let the selling price = ₹ x
According to the question,

The selling price of sofa = $24500 \times \dfrac{95}{100} \times \dfrac{95}{100}$ = ₹ 22111.25

66.   Option (3) is correct.
Given that,
The speed of train = 72 km/h
And time taken by train = 15 min = $\dfrac{1}{4}$ hr
So, distance = $72 \times \dfrac{1}{4}$ = 18 km

67.   Option (4) is correct.
The difference between upper limit and lower limit of the class interval is called 'Class size'.

68.   Option (2) is correct.
Given that,
Number of revolutions = 4000
And covered distance = 60 km = 60000 m
Let the radius of wheel = r m
Distance covered in one revolution = $2\pi r$
So, 60000 = $2\pi r \times 4000$
⇒ 15 = $2 \times \dfrac{22}{7} \times r$
⇒ r = 2.39 m

69.   Option (4) is correct.
Given that, the average marks of 6 students = 48
So, total marks of six students = 48 × 6=288
According to the question,
Their exact total marks = 288 – 54 + 45 = 279
So, required average = $\dfrac{279}{6}$ = 46.5

70.   Option (3) is correct.
Given that, $\dfrac{x+y}{x-y} = \dfrac{3}{2}$
⇒ $2x + 2y = 3x - 3y$
⇒ $x = 5y$
So, $\dfrac{x^2+y^2}{x^2-y^2} = \dfrac{25y^2+y^2}{25y^2-y^2} = \dfrac{13}{12}$

71.   Option (2) is correct.
Selling price of the article = 46
And loss percentage = 8%
So, CP = $46 \times \dfrac{100}{92} = 50$
Hence, selling price of the article for a gain of 6% = $50 \times \dfrac{106}{100}$
= ₹ 53

72.   Option (1) is correct.
The value of 30 ÷ 6 × 5 of (2 + 3) – 12 (3 × 2)
= 30 ÷ 6 × 5 of 5 – 72
= 30 ÷ 6 × 25 – 72
= 5 × 25 – 72
= 53

73.   Option (1) is correct.
Let IIIrd number is 100,
So, Ist number = 75
   IInd number = 64
So, required percentage = $\dfrac{(75-64)}{75} \times 100$
= $\dfrac{11}{3} \times 4$
= 14.66%

74. **Option (1) is correct.**
Given that the average age of 40 students = 12 years
So, their total age = 40 × 12 = 480 years
According to the question,
After adding teacher, their average age = 13 years
So, their total age = 41 × 13 = 533 years
Hence, the age of teacher = 533 – 480 = 53 years

75. **Option (1) is correct.**
Given that the population of D4 = 35000
So, population over the poverty = $35000 \times \dfrac{75}{100} = 26250$
Hence, number of females above the poverty lines = $26250 \times \dfrac{3}{7} = 11250$

76. **Option (3) is correct.**
On the academic front you are likely to outshine others and take up a better career. The part 'you are likely to outshine others' is correct in terms of tense and prepositional choice.

77. **Option (2) is correct.**
Affinity means a natural attraction or feeling of kinship. Monotony means repetition and routine. Beauty is related to aesthetic. Decency is nothing but good behaviour. So, Empathy is the correct synonym. Example: I felt an affinity for the boy in ragged clothes; it took me back to the time when I faced poverty.

78. **Option (3) is correct.**
Those who are travelling today by train may get delayed in reaching their destinations. The part 'travelling today by train may have delayed' will be replaced by 'travelling today by train may get delayed'. The auxiliary 'are' will take the -ing form of verb, so 'travelling' is appropriate. The correct preposition before train is 'by', not 'in'.

79. **Option (2) is correct.**
Volunteer is a person who voluntarily undertakes or expresses a willingness to undertake a service. Amateur is engaging or engaged in without payment. Athlete is a person who is proficient in sports and other forms of physical exercise. so, amateur connotes one who does a thing for pleasure and not as a profession.

80. **Option (2) is correct.**
In India, the various practices and norms for bank's transactions are laid down by the RBI only. The part 'norms from bank's transactions' will be replaced by 'norms for bank's transactions'. The conjunction 'for' is used to indicate a purpose or a reason for something; here, the purpose being bank's transactions.

81. **Option (2) is correct.**
Convene means to come or bring together for a meeting or an activity; assemble. Example: The President of the Company convened a meeting on a contingent basis. Gather means come together; assemble. Disperse connotes distribute or spread over a wide area. Request means pleading. Summon is ordering (someone) to be present. Thus, the antonym of convene is 'disperse'.

82. **Option (4) is correct.**
Supplementary is the correctly spelt word, meaning completing or enhancing something.

83. **Option (1) is correct.**
Statistical measures which track the money-saving behaviour haven't improved much. The correct replacement for 'measure

which track the money-saving behaviour' is 'measures which track the money-saving behaviour'. There is an error in subject-verb concord. The verb is plural in number (haven't/ track), so the subject must also align with it. So 'Statistical measures' is appropriate.

84. **Option (1) is correct.**
Cumbersome is hard to handle or manage because of size or weight. Graceful is having (or showing) manners of grace or elegance. Virtuous means high moral standards. Wonderful refers to something that is being extremely good or fantastic. So, here 'heavy' is correct.

85. **Option (3) is correct.**
Distribute is to give (or spread) something over several individuals. Lead means to guide someone along the way to show the right direction. Disagree means to have a different opinion or perspective or not to agree. Contribute refers to giving money, time, knowledge or assistance etc, to a common purpose. Concur is to be of the same opinion. So, the correct antonym is 'disagree'.

86. **Option (3) is correct.**
Your parents may get annoyed with your lifestyle and demand a change in it. Since the sentence states that the parents may demand a change in the kid's lifestyle, it is obvious that they do not like it, and are annoyed with it.

87. **Option (3) is correct.**
Success begins in the mind. This is a wonderful quote to explain the power of having faith in yourself. All options, except (3) are negative in their implications. But the sentence insists on instigating a quality that acts as a power in oneself. So, it is 'faith'.

88. **Option (1) is correct.**
Since everyone wants success, they all try their best. The pronoun 'they' confirm the suitability of 'everyone'.

89. **Option (4) is correct.**
Sometimes they will encounter failure, but that's what life is. It is stated that sometimes people put in their best, but meet with failure and this is what life comprises. So 'encounter' (meet with) is the correct choice of verb.

90. **Option (4) is correct.**
All you need is to take that failure in your stride, learn from it and never forget it. The writer advises not to get bogged down by failure, instead take failure in your step as a learning lesson.

91. **Option (4) is correct.**
It doesn't matter how or where you come from, success happens to those who shake hands with difficulties. Since the writer wants everyone not to get bogged down by failure, instead take failure in your step as a learning lesson; it is evident that he wants them to accept failure and shake hands with difficulties to attain success.

92. **Option (4) is correct.**
While we would like all Indian children to go to school, we need to ponder why they do not. The part 'why they does not' will be replaced by 'why they do not'. This is an example of subject-verb agreement, where the singularity of the subject demands a singular verb. So, the pronoun 'they' needs to be followed by 'do' (plural verb), not 'does'.

93. **Option (1) is correct.**
You can master anything by the usual process of learning and practicing it regularly. Since the statement promotes the

mastering of an art, it will definitely recommend a regular process of accomplishing it.

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

    Solitary means lonely. Introvert is a shy person. Stoic is a person who is indifferent to the pains and pleasures of life. Social is relating to society.

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

    To call a day is to stop what you are doing because you are tired of it or because it is not successful or because it is completed or because time is up. Example: I'm getting a bit tired now - let's call it a day.

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

    To hand together is to be connected with each other.

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

    Budget is the correctly spelt word. It means a finance plan that allocates future personal income towards expenses, savings and debt repayment.

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

    Whenever he refers to his friends he is pleased but when he talks of his foes he is unhappy. The conjunction 'but' presents two contradictory views- he is pleased to talk about his friends, on the other hand he must be sad when he talks of his foes. So, the blank requires a negative word.

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

    Community by planting a seed of peace within and a tree outside. The part 'You are invite' will be replaced by 'You are invited'. The auxiliary verb 'are' never takes the base form of verb, it will either be ending in -ed or -ing. But the sentence is not in continuous form.

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

    My forefinger is still bruised where I caught it in the door this morning. The act of getting the forefinger caught it in the door, does not lead to a damage, but a bruise.