

Student's Phone : \_\_\_\_\_ Question Paper :: Pratibha 2023 Principal's name : \_\_\_\_\_

Name : \_\_\_\_\_ Class: \_\_\_\_\_ School : \_\_\_\_\_ Father's name : \_\_\_\_\_

Note : There are total 75 questions. Each question is of 1 mark. No negative marking is there.

Total Time : 1 Hour 30 Minutes

For each question, mark right answer in left [ ] only. For rough work, use back side of question paper.

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- [ ] 1. If  $z + 1/z = 15$ , then the value of  $z - 1/z = ?$  A. 13 B. 14 C.  $229^{1/2}$  D.  $221^{1/2}$
- [ ] 2. If  $a = -1$  and  $b = 1$  then  $a^{99} + b^{99} = ?$  A. -1 B. 0 C. 1 D. 198
- [ ] 3.  $2.34 \times 2.34 - 1.34 \times 1.34 = ?$  A. 1.68 B. 2.68 C. 3.68 D. 4.56
- [ ] 4. Uday can complete a job in 40 days. Tarun can complete the same job in 60 days. If they work together, how many days they will take to complete the job ? A. 24 B. 20 C. 30 D. 36
- [ ] 5. Two pipes X & Y fill a water tank together in 20 hours and X alone fills it in 60 Hours. How many hours Y alone will take to fill the same tank ? A. 80 B. 10 C. 40 D. 30
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- [ ] 6. At 05:30 Hours, the smaller angle between hour and minute arm is ? A. 15 B. 30 C. 120 D. 170
- [ ] 7. If the codeword for BOND is ZMLB, what is the codeword of RISK ? A. PFQI B. PGQI C. RGQI D. PGRI
- [ ] 8. In series 1, 6, 3, 19, 7, 58, 15, X, 31, 526; X = ? A. 195 B. 185 C. 175 D. 165
- [ ] 9. In a school, 75 % boys and 25 % girls are there. If number of girls is 200, then number of total students = ? A. 800 B. 700 C. 600 D. 500
- [ ] 10. What is the compound interest of Rs. 10000 with an interest rate of 8% per year for 2 years ? A. 1464 B. 1600 C. 1664 D. 1736
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- [ ] 11. Length and breadth of a rectangular park is in the ratio of 4 : 3 and its area is 132300 Sq Mtr. What is the perimeter of the park ? A. 735 B. 12 C. 1470 D. 24
- [ ] 12. The ratio of two numbers is 6 : 7 and their sum is 1300. The smaller number is ? A. 600 B. 700 C. 500 D. 1300
- [ ] 13. In a particular year, 3<sup>rd</sup> April falls on Monday. What day will be on 8<sup>th</sup> July in that year ? A. Tuesday B. Saturday C. Monday D. Friday
- [ ] 14. If a, b, c, d, e form an arithmetic progression then the value of  $2a - 4b + 6c - 4d + e$  is ? A. 1 B. 3a C. 0 D. a
- [ ] 15. In a right-angle triangle, two sides are 5 and 12 Cm. Hypotenuse length = ? A. 13 B. 17 C. 90 D. 7
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- [ ] 16. If x % of 300 = 60, then the value of x = ? A. 240 B. 25 C. 20 D. 360
- [ ] 17. A father is 25 years older than his son. However, 15 years later, his age will be 2 times the age of his son. What is the son's present age ? A. 15 B. 10 C. 5 D. 20
- [ ] 18. Which is the number that does not belong to group 50, 64, 91, 8, 36, 78 ? A. 50 B. 64 C. 91 D. 8
- [ ] 19. Diameter of a circle is doubled. Its radius will increase by what % ? A. 100 B. 200 C. 300 D. 400
- [ ] 20. LCM of 40, 60, 90 is ? A. 20 B. 90 C. 180 D. 360
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- [ ] 21. In triangle XYZ, if angle X = 30 Degree and angle Z = 40 Degree, then the longest side is ? A. XY B. YZ C. XZ D. Y
- [ ] 22. If  $x + x^2 + x^3 = 84$ , then x = ? A. 7 B. 6 C. 5 D. 4
- [ ] 23. Side of a cube is 6 Cm. Its volume in  $\text{Cm}^3 = ?$  A. 216 B. 36 C. 126 D. 206
- [ ] 24. A train (1 Km long) crosses 1 Km long bridge at 100 Km/Hour speed. Time taken in crossing the bridge in Minutes is ? A. 1.8 B. 0.2 C. 0.3 D. 1.2
- [ ] 25.  $0.5 \times 5 \times 0.5 = ?$  A. 0.125 B. 1.250 C. 0.0125 D. 12.50
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- [ ] 26. If  $3x - 1 = 80$ , what is the value of  $x - 3$  ? A. 83 B. 56 C. 24 D. 79
- [ ] 27. If  $(2)^{x+1} - (2)^{x-1} = 48$  then x = ? A. 6 B. 5 C. 4 D. 3

- [ ] 28. If  $x - 1/x = 6$ , then  $x^2 + 1/x^2 = ?$  A. 38 B. 42 C. 51 D. 53
- [ ] 29. A rope is folded to make a square with a side as 66 Cm. Then a circle is made using this rope. The radius of the circle in Cm is ? A. 21 B. 42 C. 14 D. 7
- [ ] 30.  $1/4 - 1/5 + 1/6 = ?$  A.  $1/12$  B.  $1/10$  C.  $47/60$  D.  $13/60$
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- [ ] 31. The perimeter of a rectangle is 72 Cm whose one side is 24 Cm. Measurement of other side is ? A. 36 B. 6 C. 12 D. 48
- [ ] 32. The diameter of a base of a cone is 12 Cm and the height is 14 Cm. The volume of a cone in  $\text{Cm}^3$  is A. 518 B. 528 C. 538 D. 548
- [ ] 33. Diagonals of rectangle ABCD meet at point O. If angle AOC=85 then angle BOD = ? A. 85 B. 95 C. 70 D. 170
- [ ] 34. The sum of two numbers is 28 and their multiplication is 192. Bigger number is ? A. 18 B. 13 C. 16 D. 11
- [ ] 35. Diameter of a sphere is increased by 200 %. Its Volume will increase by what % ? A. 200 B. 700 C. 800 D. 2600
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- [ ] 36.  $(a-b)^2 + (a+b)^2 = ?$  A.  $2a^2 + 2b^2$  B. 0 C.  $-4ab$  D.  $4ab$
- [ ] 37. Square root of 14161 ? A. 129 B. 111 C. 119 D. 121
- [ ] 38. Cube root of 12167 = ? A. 33 B. 23 C. 13 D. 43
- [ ] 39. The sum of the digits of a two digit number is 15. If the digits are reversed, the new number is 9 less than original number. What is the original number ? A. 69 B. 96 C. 87 D. 78
- [ ] 40. Manu scored 20, 0, 130, 90 and 40 runs in 5 innings. His average score per inning is ? A. 70 B. 60 C. 50 D. 56
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- [ ] 41. If  $X = \{1, 2, 3, 5\}$  and  $Y = \{2, 3, 4\}$  then  $X \cup Y = ?$  A.  $\{1, 2, 3, 4, 5\}$  B.  $\{1, 2, 2, 3, 3, 4, 5\}$  C.  $\{1, 2, 4\}$  D.  $\{2, 3\}$
- [ ] 42.  $(-9) + (-10) - (-11) + (-13) = ?$  A. 43 B. 20 C. -21 D. -43
- [ ] 43. If  $1/x - 1/y + 1/z = 0$ ,  $x = ?$  A.  $zy/(z-y)$  B.  $zy/(y-z)$  C.  $(y+z)/yz$  D.  $(y-z)/yz$
- [ ] 44. 26 people can complete a job in 28 days. 14 people will finish this work in how many days? A. 38 B. 52 C. 42 D. 104
- [ ] 45. If  $3x - 30 = 26 - x$ , then  $x = ?$  A. 20 B. 18 C. 16 D. 14
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- [ ] 46.  $2 \times 500 - 400 / 50 + 8 = ?$  A. 16 B. 20 C. 12 D. 1000
- [ ] 47. A parallelogram whose all sides are equal and one of the angles is 90 degree, is called ? A. Square B. Rectangle C. Rhombus D. Trapezium
- [ ] 48. The difference between two numbers is 66 & their ratio is 2: 5. The smaller number is ? A. 3 B. 33 C. 44 D. 110
- [ ] 49. Radius of base and height of a cylinder are 7 Cm and 5 Cm respectively. Volume of cylinder in  $\text{Cm}^3 = ?$  A. 870 B. 770 C. 670 D. 570
- [ ] 50. Recent Silkyara tunnel collapse took place in which district? A. Bageshwar B. Tehri C. Uttarkashi D. Chamoli
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- [ ] 51. In which district of Uttarakhand, Lakha Mandal is situated? A. Dehradun B. Rudrapur C. Nainital D. Haridwar
- [ ] 52. At which place does river Bhagirathi merge with Alaknanda ? A. Rudrapur B. Tehri C. Dev Prayag D. Karnaprayag
- [ ] 53. Almora District does not share boundary with which district? A. Chamoli B. Tehri C. Pithoragarh D. Bageshwar
- [ ] 54. The world famous "Valley of flowers" is situated in which district? A. Bageshwar B. Tehri C. Uttarkashi D. Chamoli
- [ ] 55. Who is the Prime Minister of Israel ? A. Benjamin Netanyahu B. Yair Lapid C. Naftali Bennett D. Vladimir Putin
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- [ ] 56. Cricket ODI 2023 World Cup final was played in which state? A. West Bengal B. Maharashtra C. UP D. Gujarat
- [ ] 57. Asian games in year 2023 were arranged in which country? A. Japan B. China C. Korea D. India
- [ ] 58. "Tum Mujhe Khoon Do, main Tumhe Ajadi Doonga" slogan was given by ? A. Mahatma Gandhi B. Subhash Chandra Bose C. Indira Gandhi D. Jawahar Lal Nehru
- [ ] 59. Who is the Finance Minister of India? A. Amit Shah B. Nitin Gadkari C. Nirmala Sitharaman D. Narendra Modi
- [ ] 60. Raman came \_\_\_\_\_ America. A. during B. from C. with D. on
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- [ ] 61. There is a red \_\_\_\_\_ under the chair. A. bag B. books C. pencils D. cats  
 [ ] 62. The plural of baby is ? A. babys B. babies C. babies D. none of these  
 [ ] 63. Raj & his family \_\_\_\_\_ here since May 1980. A. is living B. have been living C. are living D. has been living  
 [ ] 64. She \_\_\_\_\_ for a walk every day. A. gos B. go C. going D. goes  
 [ ] 65. Opposite of abuse is ? A. नुकसान B. प्रशंसा C. दुर्ब्यहार D. नष्ट करना

- [ ] 66. सहमति means ? A. object B. suffer C. praise D. agree  
 [ ] 67. व्यस्त means ? A. active B. occupied C. idle D. fast  
 [ ] 68. Opposite of opponent is ? A. प्रतिद्वंदी B. दुश्मन C. मित्र D. अजनबी  
 [ ] 69. Tunnel means? A. सुरंग B. रास्ता C. स्थान D. पहाड़  
 [ ] 70. In Fig -4 below, if angle  $ABC=40^\circ$ ,  $BAC=20^\circ$  then angle  $ACD = ?$  A. 60 B. 55 C.50 D.45

- [ ] 71. In Fig -3 below, MN passes through centre O. Which statement is correct? A.  $MN^3=MQ^3+ NQ^3$  B.  $MN=MQ+QN$   
 C. MN is diameter of the circle D.  $MN=NP+PO$   
 [ ] 72. In Fig -6 below, AB and CD are parallel lines being intersected by line EF at G and H respectively. If angle  $CHE = 100^\circ$  then angle  $EGB = ?$  A.40 B.80 C.60 D. 70  
 [ ] 73. In Fig -5 below, ADB is a right angle. If angle  $DAB = 35^\circ$  and angle  $DBE = 75^\circ$  then angle  $CBE = ?$  A.50 B.40  
 C.45 D. 35  
 [ ] 74. In Fig -1 below, if angle  $MNP=50$  Degree,  $NPO=105$  degree then angle  $NMP = ?$  A. 40 B. 55 C.50 D.60  
 [ ] 75. In Fig -2 below, if angle  $AOB = 103$  degree, angle  $DOC = 70$  degree and angle  $BOC = 25$  degree then angle  $AOD = ?$   
 A. 110 B.120 C.165 D. 162

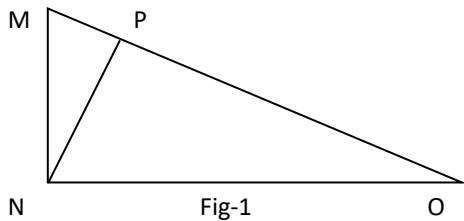


Fig-1

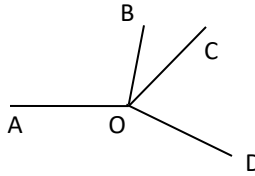


Fig-2

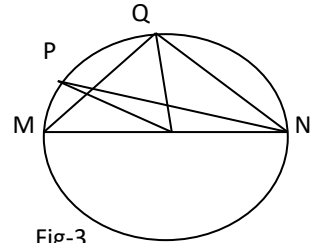


Fig-3

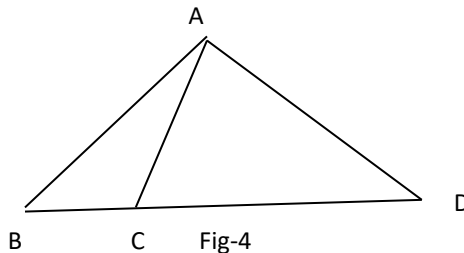


Fig-4

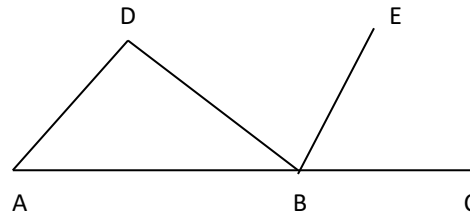


Fig-5

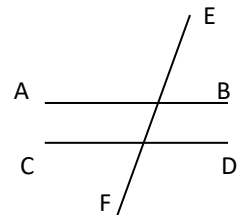


Fig-6

\*\*\* E \*\*\* N \*\*\* D \*\*\*