







- 32. The property of a metal which reduces its strength when it is subjected to reversal of stress is called-**
- 1) Fatigue                      2) Creep                      3) Resilience                      4) Elasticity
- 33. Melting point of cast iron (in °C) is in the range of-**
- 1) 1150-1300                      2) 1800-1900                      3) 1450-1600                      4) 600-700
- 34. The buckling loads depend upon-**
- 1) slenderness ratio                      2) cross-sectional area  
3) modulus of elasticity                      4) All of the above
- 35. 'Anvil' is used in the work of-**
- 1) Forging                      2) Welding                      3) Fitting                      4) Machining
- 36. In an electrical circuit resistance is 55 Ohms and current 4 amperes. What is voltage?**
- 1) 220V                      2) 13.75V                      3) 0                      4) 110V
- 37. Bell metal contains Cu and ....**
- 1) Al                      2) Sn                      3) Zn                      4) Ni
- 38. To produce flat surfaces by a reciprocating type of machine tool is called-**
- 1) Lathe                      2) Shaper                      3) Drill                      4) Milling
- 39. Which is the most elastic material?**
- 1) Rubber                      2) Timber                      3) Plastic                      4) Steel
- 40. Which of the following has the highest Poisson's ratio?**
- 1) Steel                      2) Copper                      3) Aluminium                      4) Rubber
- 41. D.C. Generator works on the basis of-**
- 1) Faraday's law of e.m.induction                      2) Ohm's law  
3) Lenz's law                      4) Newton's law
- 42. When  $x = 2$ , the value of  $\left(0.5 - \frac{1}{x}\right) = ?$**
- 1) 1.5                      2) -1.5                      3) 0.5                      4) 0
- 43. What number has to be added to the terms of 3 : 5 to make the ratio 5 : 6?**
- 1) 13                      2) 7                      3) 12                      4) 6
- 44. Find the value of  $\left\{8 - 2 \times \frac{8 - 2}{8 + 2} \times 5\right\}$**
- 1) 3                      2) 2                      3) 6                      4) 4

45. The sum of three consecutive numbers is 18; find the sum of the next three consecutive numbers?  
 1) 24                      2) 30                      3) 27                      4) 35
46.  $\log_5 125 = x$ ;  $x = ?$   
 1) 25                      2) 3                      3) 2                      4) 5
47. Find the value of x in  $(2^2) \frac{1}{3} \left( 2x + \frac{1}{2} \right) = 2^{-5}$   
 1) -4                      2) +4                      3) -2                      4) +2
48. A two digit number is 7 times the sum of its two digits. The number that is formed by reversing its digits is 18 less than the original number. What is the number?  
 1) 52                      2) 42                      3) 62                      4) 27
49. A sum of money becomes Rs. 20,925 in 2 years and Rs. 24,412.50 in 5 years. Find the rate of interest and the sum of money  
 1) 8%, Rs.17,560                      2) 6.25%, Rs.18,600  
 3) 7%, Rs.18,000                      4) 6.75%, Rs.17,775
50. Find the sum fraction which becomes  $\frac{1}{2}$  when denominator is increased by 4; the same fraction becomes  $\frac{1}{8}$  when the numerator is reduced by 5.  
 1)  $\frac{3}{5}$                       2)  $\frac{5}{8}$                       3)  $\frac{6}{8}$                       4)  $\frac{8}{12}$
51. Lux is the unit of  
 1) magnetic flux                      2) frequency  
 3) sound intensity                      4) level of illumination
52. MISTAKE = 9765412, NAKED = 84123 then STAIN = ?  
 1) 65478                      2) 98175                      3) 89483                      4) 68194
53. GAMBLE = ICODNG; FLOWER = ?  
 1) GMPXFS                      2) HNQYGT                      3) GMPVDS                      4) None of these
54. Ram started from his house and walked 2km North, then 3 km west and finally 6 km south. How far is he from his house?  
 1) 5 km                      2) 11 km                      3) 4 km                      4) 7 km
55. Arrange the following words in the order they appear in an English dictionary?  
 1. Literature                      2. Little                      3. Liberty                      4. Library  
 1) 4, 3, 2, 1                      2) 3, 4, 1, 2                      3) 2, 1, 3, 4                      4) 4, 3, 1, 2

56. Insert the missing numbers-

2	6	?	?
54	18	81	27

- 1) 3 and 9                      2) 5 and 18                      3) 6 and 12                      4) 3 and 21

57. Which tool is used for chipping?

1. Chisel                      2. Drill                      3. Pliers                      4. Hammer

58. "PICO" means-

- 1)  $10^{-15}$                       2)  $10^{-9}$                       3)  $10^{-12}$                       4)  $10^{-6}$

59. 1 nanometre = ?

- 1)  $10^{-7}$  m                      2)  $10^{-8}$  m                      3)  $10^{-9}$  m                      4)  $10^{-6}$  m

60. The relation between wave velocity (V), frequency (f) and wave - length ( $\lambda$ ) is-

- 1)  $V = f\lambda$                       2)  $\lambda = Vf$                       3)  $f = \frac{\lambda}{V}$                       4)  $f = \lambda V$

61. 100K = ?

- 1)  $170^{\circ}\text{C}$                       2)  $-173^{\circ}\text{C}$                       3)  $-273^{\circ}\text{C}$                       4)  $273^{\circ}\text{C}$

62. At 1.45 PM, the hour hand will be in the direction-

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

63. House, bedroom and bathroom are best represented by which venn diagram?



64. If the 26<sup>th</sup> August in a month is Friday, then the number of Tuesdays in that month will be-

- 1) 4                      2) 5                      3) 6                      4) None of these

65. If the diameter of a sphere is 6 meters, its hemisphere will have a volume of-

- 1)  $36\pi$                       2)  $72\pi$                       3)  $18\pi$                       4) None of these

66. What part of an hour elases from 4.56PM to 5.32 PM?

- 1)  $\frac{1}{4}$                       2)  $\frac{3}{4}$                       3)  $\frac{3}{5}$                       4)  $\frac{1}{2}$

67. "Newton's Disk" when rotated rapidly appears

- 1) Yellow                      2) White                      3) Black                      4) Green

68. Red Hematite is the ore of

- 1) Copper                      2) Zinc                      3) Aluminium                      4) Iron

**69. Specific Latent heat of vapourization of water is-**

- 1) 540 calories/ gm                      2) 80 calories/ gm  
3) 540 k.calories/ gm<sup>2</sup>                      4) 80 k.calories/ gm<sup>2</sup>

**70. What percent of CO<sup>2</sup> by volume constitutes the atmosphere?**

- 1) 1%                      2) 0.03%                      3. 0.1%                      4) 2%

**71. Which Gupta ruler was crowned with the title of Vikramaditya?**

- 1) Chandragupta-I                      2) Chandragupta-II  
3) Skundgupta                      4) Samudragupta

**72. The father of Rabindrabhanath Tagore was-**

- 1) Ratindranath                      2) Dwarkanath  
3) Avanindranath                      4) Devendranath

**73. Which of the following filmstars was lovingly called "Dadamuni"?**

- 1) Sanjeev Kumar                      2) Asit sen  
3) Ashok Kumar                      4) Kishore Kumar

**74. The unit to measure the speed of ships is-**

- 1) mile                      2) kmph                      3) knot                      4) mph

**75. National Defence Academy is situated in-**

- 1) Dehradun                      2) New Delhi  
3) Kharagwasala                      4) Nasik

**76. Dhanpat Rai is popularly known as-**

1. Nirala                      2. Hari Audh                      3. Bachchan                      4. Premchand

**77. The Khajuraho temples are situated in-**

- 1) Madya pradesh                      2) Uttar Pradesh  
3) Rajasthan                      4) Bihar

**78. The famous "Gateway of India" is situated in**

- 1) Mumbai                      2) Agra                      3) New Delhi                      4) Kolkata

**79. Which has pink colour ?**

- 1) India Gate                      2) Victoria Memorial  
3) Hawa Mahal                      4) Lotus Temple

**80. Hinyana and Mahayana are two sects of**

- 1) Sikhism            2) Hinduism            3) Buddhism            4) Jainism
- 81. Status of Liberty is situated in-**  
1) Spain            2) UK            3) US            4) Italy
- 82. Who is called Bharatendu?**  
1) Rabindranath            2) Premchand  
3) Hrishchandra            4) Bachchan
- 83. Euro is the currency of**  
1) Germany            2) New Zealand            3) Canada            4) Mexico
- 84. NaCl is the chemical formula of-**  
1) Urea            2) Salt            3) Baking soda            4) Lime
- 85. Seismology is the scientific study of**  
1) Earthquake            2) Weather conditions  
3) Volcanoes            4) Rocks
- 86. Who was the last viceroy of India?**  
1) C.Rajgopalachari            2) Lord Wavell  
3) Lord Canning            4) Mountbatten
- 87. Haldiya oil refinery is situated in-**  
1) Bihar            2) Jharkand            3) Orissa            4) W.Bengal
- 88. Which of the following cities is also called Prayag?**  
1) Lucknow            2) Allahabad            3) Patna            4) Nasik

## ANSWERS

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