Meritorious Tutorials

#33, Kesar Garden Sec-20, Kharghar Navi Mumbai

VIII STD.

Class 08 - Admission Test

Time Allowed: 30 minutes **Maximum Marks: 25**

General Instructions:

All the questions are compulsory

1. The circumference of a circle disc is 88 cm. Its radius is **[1]**

   a) 8 cm b) 14 cm

   c) 11 cm d) 44 cm

2. If the salary of Kamal is 50% more than that of Amal, then the salary of Amal is how much less than that of Kamal? **[1]**

   a) $33\frac{1}{3}$ b) $66\frac{2}{3}$

   c) 50 d) $16\frac{2}{3}$

3. The value of $\frac{(5)^{0.25}\times(125)^{0.25}}{(256)^{0.10}\times(256)^{0.15}}$ is **[1]**

   a) $\frac{5}{4}$ b) $\frac{25}{2}$

   c) $\frac{25}{16}$ d) $\frac{\sqrt{5}}{2}$

4. Kavita and Pooja participated in a hurdle race. The race was conducted in 7 parts. In the first part, Kavita lost by 10 seconds. In the second part she, won by $1\frac{1}{2}$ minutes. In the third part Pooja won by 25 seconds but she lost it by 15 seconds in fourth part and won it by 1 minute in fifth part. In the sixth part Kavita won by 8 seconds and in the last part of the race, Pooja won it by 20 seconds. Who won the race finally and by how much time? **[1]**

   a) Kavita, by 3 seconds b) Pooja, by 3 seconds

   c) Kavita, by 2 seconds d) Pooja, by 2 seconds

5. Which pairs of the following angles are complementary? **[1]**

   a) 75^o, 35^o b) 80^o, 10^o

   c) 48^o, 62^o d) 45^o, 65^o

6. Evaluate $\left(1^3+2^3+3^3+4^3\right)^{\frac{-3}{2}}$ **[1]**

   a) 10^{-1} b) 10^{-4}

   c) 10^{-2} d) 10^{-3}

7. Which one of the following is the value of 1^{15}? **[1]**

   a) 0 b) 2

   c) 15 d) 1

8. Which of the following is a regular polyhedron? **[1]**

a) Triangular prism
b) Square prism
c) Cuboid
d) Cube

9. An exterior angle of a triangle is of measure 85^o and one of its interior opposite angles is of measure 30^o. Find the measure of the other interior opposite angle. **[1]**

a) 75^o
b) 45^o
c) 65^o
d) 55^o

10. A man loses $12\frac{1}{2}\%$ of his money and after spending 70% of the remainder, he was left with ₹ 210. The money that he had at the beginning **[1]**

a) ₹ 780
b) ₹ 790
c) ₹ 800
d) ₹ 810

11. An exterior angle of a triangle is of measure 110^o and one of its interior opposite angles is of measure 25^o. Find the measure of the other interior opposite angle. **[1]**

a) 75^o
b) 65^o
c) 55^o
d) 85^o

12. When the circumference and area of a circle are numerically equal, then the diameter is numerically equal to **[1]**

a) circumference
b) 4 unit
c) 2π
d) area

13. Gopi borrowed ₹ 1800 at 12% per annum for 2 years and Krishna borrowed ₹ 1200 at 18% per annum for 3 years. Then the ratio of interests paid by them is **[1]**

a) 3 : 1
b) 2 : 1
c) 2 : 3
d) 1 : 2

14. The radius of a hemisphere is decreased by 10%. The percentage change in its surface area is **[1]**

a) decrease by 15%
b) increase by 10%
c) decrease by 10%
d) decrease by 19%

15. Find the mode for the data set, which shows the heights (in inches) of 10 students of Tinku's class. **[1]**
60, 55, 59, 56, 61, 62, 62, 62, 57, 72

a) 72
b) 62
c) 70
d) 60

16. Find the complement of $\frac{1}{2}$ of right angle. **[1]**

a) 45^o
b) 55^o
c) 40^o
d) 50^o

17. How many edges are there in a cuboid? **[1]**

a) 12
b) 10

c) 14 d) 8

18. The area of a semicircle of radius 4r is **[1]**

a) $4\pi r^2$ b) $8\pi r^2$

c) $2\pi r^2$ d) $12\pi r^2$

19. In what time will ₹1860 amount to ₹2278.50, if simple interest is calculated at 9% per annum? **[1]**

a) 2 years b) 3 years 6 months

c) 6 months d) 2 years 6 months

20. Rakesh has 10 one rupee coins of similar kind. He puts them exactly one on the other. What shape will he get finally? **[1]**

a) Cylinder b) Cube

c) Circle d) Cone

21. Which of the following can be the base of a pyramid? **[1]**

a) Circle b) Octagon

c) Oval d) Line segment

22. Divide the sum of $\frac{65}{12}$ and $\frac{12}{7}$ by their difference. **[1]**

a) $\frac{599}{311}$ b) $\frac{642}{133}$

c) $\frac{680}{216}$ d) $\frac{501}{301}$

23. How many circles do you need to form a cylinder? **[1]**

a) 3 b) 7

c) 2 d) 5

24. The value of $\sqrt[3]{2} \times 7\sqrt[3]{6} \times 5\sqrt[3]{18}$ is **[1]**

a) 500 b) 630

c) 545 d) 400

25. The length and the breadth of a rectangular piece of land are 500 m and 300 m respectively. Find its area. **[1]**

a) 150000 m^2 b) 1500 m^2

c) 150 m^2 d) 15000 m^2