

## Doers Section

No. of Questions:30
Marks for each question: 2

1. An integer can be
a. Only Positive
b. Only Negative
c. Both positive and negative
d. None of the above
2. $\frac{5}{4}+\frac{1}{4}$ is equal to:
a. $\frac{3}{4}$
b. $\frac{3}{2}$
c. $\frac{2}{3}$
d. 1
3. What is the additive inverse of $-\frac{4}{9}$
a. $\frac{4}{9}$
b. $-\frac{9}{4}$
c. $\frac{9}{4}$
d. $-\frac{2}{3}$
4. What is the product of $\frac{7}{15}$ and reciprocal of $-\frac{1}{5}$
a. $\frac{7}{34}$
b. $-\frac{7}{45}$
c. $-\frac{7}{3}$
d. $-\frac{5}{7}$
5. What is the additive inverse of $-\frac{7}{17}$
a. $\frac{7}{17}$
b- $\frac{7}{17}$
C. $\frac{17}{7}$
d. $-\frac{17}{7}$
6. Find $x$ if $x+5=26$
a. 21
b. 22
c. 31
d. 35
7. If 17 is subtracted from a number, it becomes -7 . This statement in the form of an equation is
a. $x+17=-7$
b. $x-17=7$
c. $x+17=7$
d. $x-17=-7$.
8. What is y in the equation $\frac{y}{4}=-8$
a. 3
b. -32
c. 12
d. 4
9. The x in the equation $\frac{5}{x}=2$ is
a. 10
b. $\frac{2}{5}$
c. $\frac{5}{2}$
d. $\frac{1}{10}$
10. How many variables are there in the equation $5 x+2 y+3 z$
a. 1
b. 2
c. 3
d. 0
11. When 7 is added to three times a number, we get 82 . The number is
a. 25
b. 27
c. 29
d. 31
12. Which of the following quadrilaterals has two pairs of adjacent sides equal and diagonals intersecting at right angles?
a. square
b. rhombus
c. kite
d. rectangle.
13. The sides of a pentagon are produced in order. Which of the following is the sum of its exterior angles?
a. $540^{\circ}$
b. $180^{\circ}$
c. $720^{\circ}$
d. $360^{\circ}$
14. Diagonals of which of the following quadrilaterals do not bisect it into two congruent triangles?
a. trapezium
b. square
c. rectangle
d. rhombus
15. In an isosceles parallelogram, we have:
a. pair of parallel sides as equal
b. pair of non-parallel sides as equal
c. pair of non-parallel sides as perpendicular
d. none of these.
16. How many vertices are there in a quadrilateral
a. 3
b. 4
c. 5
d. 6
17. How many diagonals are there in a quadrilateral?
a. 1
b. 2
c. 3
d. 4
18. The sum of measures of all four angles of a quadrilateral is
a. $90^{\circ}$
b. $180^{\circ}$
c. $360^{\circ}$
d. $720^{\circ}$
19. The angle sum of a convex polygon with the number of sides 7 is.
a. $900^{\circ}$
b. $1080^{\circ}$
c. $1440^{\circ}$
d. $720^{\circ}$
20. If the digit in one's place of a number is 5 , then the last digit of its cube will be:
a. 6
b. 3
C. 5
d. 8
21. Cube root of 27000 is
a. 90
b. 30
c. 27
d. 120
22. If 72 K is a perfect cube, then the value of K is
a. 3
b. 1
c. 2
d. 4
23. The value of $\left(5^{\circ}+15^{\circ}\right) \times 3^{2}$ is
a. 8
b 18
c 12
d 0
24. Which is reciprocal of $-\frac{4}{9}$
a. $-9 / 4$
b. $4 / 9$
c. 1
d. 0
25. $9.1 \times 10^{-6}$ is the same as
a. 0.0000091
b. 0.00009 .1
c. 0.00091
d. 0.0091
26. Which is the standard form of 0.00001948 ?
a. $1.948 \times 10^{5}$
b. $1.948 \times 10^{-5}$
c. $194.8 \times 10^{-7}$
d. $194.10^{7}$
27. The 25 is the same as
a. 16
b. 32
c. 64
d. 72
28. In the expression $10^{33}$ the base is
a. 0
b. 10
c. 100
d. 33
29. Multiplicative inverse of $5^{-2}$ is
a. 25
b. 7
c. 14
d. 64
30. Following is a diagram of

a. Square
b. Cube
c. Rectangle
d. Irregular shape

## Executors Section

31. Area of a square having one side of 5 cm is
a. $25 \mathrm{~cm}^{2}$
b. $15 \mathrm{~cm}^{2}$
c. $100 \mathrm{~cm}^{2}$
d. Can't say
32. The $\pi r^{2}$ represents
a. Area of a circle
b. The perimeter of a circle
c. Area of a semi-circle
d. Area of a sphere
33. $1 \mathrm{~cm}^{3}=$
a $1000 \mathrm{~mm}^{3}$
b $100 \mathrm{~mm}^{3}$
c $10 \mathrm{~mm}^{3}$
d $11000 \mathrm{~mm}^{3}$
34. Which of the following is the numerical coefficient of $-4 x y$ ?
a. 4
b. $-x$
c. -4
d. $-y$
35. The value of $x^{2}-2 x+1$ when $x=1$ is
a. 1
b. 2
c. -2
d. 0

## Performers Section

36. The area of the figure is

(a) $77 \mathrm{~cm}^{2}$
(b) $154 \mathrm{~cm}^{2}$
(c) $38.5 \mathrm{~cm}^{2}$
(d) none of the above
37. Based on the following graph match the table below


| A | Most popular game in the school | I | Football |
| :--- | :--- | :--- | :--- |
| B | Least popular game in class VII | II | Cricket |
| C | Only $50 \%$ of student plays as <br> compared to the most popular <br> game in class VIII | III | Golf |

Options
a. A-I, B-II, C-III
b. A-II, B-III, C-I
c. A-III, B-II, C-I
d. A-I, B-III, C-II
38. The area of the quadrilateral is

a. $3.75 \mathrm{~cm}^{2}$
b $.7 .5 \mathrm{~cm}^{2}$
c. $3 \mathrm{~cm}^{2}$
d. $10 \mathrm{~cm}^{2}$
39. Harry took a bank loan at the rate of $12 \%$ p.a. simple interest. After 3 years he had to pay Rs. 5400 as interest. What is the principal amount (in Rs) borrowed by him?
a. 12000
b. 20000
c. 15000
d. 10500
40. The ratio of the speed of a cycle 24 km per hour to the speed of a scooter 48 km per hour is
a. 1:2
b. 1:3
c. $1: 4$
d. 2:3

