

SARALA BIRLA PUBLIC SCHOOL

Birla Knowledge City, Mahilong, Ranchi

CLASS-IX, (2020-21)

Sub: MATHEMATICS

Assignment-5

Choose the correct option.

1. Degree of the zero polynomial is

- a) 0
- b) 1
- c) Every real number
- d) Not defined

2. $\sqrt{5}$ is a polynomial of degree :

- a) $\frac{1}{2}$
- b) 2
- c) 0
- d) 1

3. When $p(x) = 4x^3 - 12x^2 + 11x - 5$ is divisible by $(2x-1)$ the remainder is:

- a) 0
- b) -5
- c) -2
- d) 2

4. Which of the following is a polynomial ?

- a) $\sqrt{x} + 3$
- b) $x - \frac{1}{x} + 2$
- c) $\sqrt{x} + 5$

d) -4

5. If $(l + m + n) = 0$, then $(l^3 + m^3 + n^3) = ?$

a) 0

b) $3l + 3m + 3n$

c) $3lmn$

d) $-3lmn$

6. Point $(4, 0)$ and $(-7, 0)$ lies :

a) On x-axis

b) On y-axis

c) In first quadrant

d) In second quadrant

7. The ordinate of any point on x-axis is :

a) 0

b) 1

c) -1

d) Any number

8. The perpendicular distance of point $(4, 3)$ from x-axis is :

a) 4

b) 3

c) 5

d) None of these

9. Which of the following needs proof?

a) An axiom

b) A definition

c) A postulate

d) A theorem

10. A point C is called the mid-point of line segment AB, if:

a) C is an interior point of AB

b) $AC=CB$

c) C is an interior point of AB such that $AC=CB$

d) $AC+CB = AB$

11. Axioms are assumed:

a) Definitions

b) Theorem

c) Universal truth in all branches of mathematic

d) Universal truth specific to geometry

12. A point (4,-4) lies

a) On x-axis

b) 2nd quadrant

c) 3rd quadrant

d) 4th quadrant

13. $a^3 + b^3 = ?$

a) $(a + b)(a^2 - ab + b^2)$

b) $(a - b)(a^2 + ab - b^2)$

c) $(a + b)(a^2 + ab + b^2)$

d) $a^3 + b^3 + 3ab + (a + b)$

14. The coefficient of highest power of x in the polynomial $2x^3 - 4x^4 + 5x^2 - x^5 + 3$ is

a) 2

b) -4

c) 3

d) -1

15. Zero of the polynomial $p(x) = 2 - 5x$ is:

a) $\frac{2}{5}$

b) $\frac{5}{2}$

c) $-\frac{2}{5}$

d) $-\frac{5}{2}$

ACTIVITY

Construct the square root spiral

Material required : Compass, ruler, chart paper, pencil

[Take help from question number 4 from exercise 1.2(NCERT book)]