

Polynomials – Chapter 2/MCQ /CBSE Class 9 Mathematics

MCQ Worksheet/Extra Questions for Practice

---

Choose the correct answer from the options given below:

1. Which of the following is a trinomial?

A.  $x + x^2 + \pi$

B.  $5x^3$

C.  $x^2 - x$

Answer:  $x + x^2 + \pi$

2. The degree of the polynomial  $2 - y^2 - y^3 + 2y^8$  is -----

A. 2

B. 4

C. 8

Answer: 8

3. A polynomial of degree one is called a -----

A. Monomial

B. Linear Polynomial

C. Quadratic Polynomial

Answer: Linear Polynomial

4. Polynomials having only one term are called -----

A. Monomial

B. Binomial

C. Linear Polynomial

Answer: Monomial

5. The degree of a nonzero constant polynomial is -----

A. Zero

B. One

C. Any number

Answer: Zero

6. The degree of the zero polynomial is -----

A. Zero

B. One

C. Not defined

Answer: Not defined

7. The coefficient of  $x^2$  in  $\frac{\pi}{2}x^2 + x$  is -----

A.  $\frac{\pi}{2}$

B.  $\pi$

C. 2

Answer:  $\frac{\pi}{2}$

8. Which of the following is not a polynomial?

A.  $y + \frac{2}{y}$

B.  $4x^2 - 3x + 7$

C.  $x^{10} + 3x^2 + 5$

Answer:  $y + \frac{2}{y}$

9. If  $p(x) = 5x^3 - 2x^2 + 3x - 2$ , find  $p(1)$ ?

A. 3

B. 4

C. 5

Answer: 4

10. Every linear polynomial has ----- zero.

A. One and only one zero

B. Two

C. Three

Answer: One and only one zero

11. A polynomial can have ----- zero.

A. One

B. More than one

C. Two

Answer: More than one

12. The zero of the polynomial in  $p(x) = 2x + 5$  is -----

A.  $\frac{-5}{2}$

B.  $\frac{-2}{5}$

C.  $\frac{5}{2}$

Answer:  $\frac{-5}{2}$

13.  $2 + 5x$  is a ----- polynomial.

A. Linear

B. Quadratic

C. Cubic

Answer: Linear

14. The remainder obtained on dividing  $p(x) = x^3 + 1$  by  $(x + 1)$  is -----

A. 0

B. 1

C. -1

Answer: 0

15. Find the value of  $k$ , if  $(x - 1)$  is a factor of  $4x^3 + 3x^2 - 4x + k$

A. 3

B. -3

C. 2

Answer: -3

---

