

EXERCISE # 1**FOR SCHOOL / BOARD EXAM.****CHOOSE THE CORRECT ONE**

1. A cubic polynomial is a polynomial with degree
(A) 1 (B) 3 (C) 0 (D) 2
2. A polynomial of degree 5 in x has at most
(A) 5 terms (B) 4 terms (C) 6 terms (D) 10 terms
3. The coefficient of x^3 in the polynomial $5 + 2x + 3x^2 - 7x^3$ is
(A) 5 (B) 2 (C) 7 (D) -7
4. The value of $P(x) = x^2 - 7x + 12$ at $x = 3$ is :-
(A) 42 (B) 0 (C) 8 (D) -6
5. A linear polynomial :-
(A) may have no zero (B) may have one zero
(C) has one and only one zero always (D) may have more than one zero
6. The zeroes of the polynomial $p(x) = x(x - 1)(x - 2)$ are :-
(A) 0 (B) 0, -1, -2 (C) 0, 1, -2 (D) 0, 1, 2
7. When the polynomial $x^3 + 3x^2 + 3x + 1$ is divided by $x + 1$, the remainder is :-
(A) 1 (B) 8 (C) 0 (D) -6
8. If the polynomial $2x^3 - 3x^2 + 2x - 4$ is divided by $x - 2$, then the remainder is :-
(A) -4 (B) 4 (C) -40 (D) 2
9. The value of k for which $x - 1$ is a factor of the polynomial $4x^3 + 3x^2 - 4x + k$ is :-
(A) 3 (B) 0 (C) 1 (D) -3
10. The value of k for which $x + 1$ is a factor of the polynomial $x^3 + x^2 + x + k$ is :-
(A) 0 (B) 2 (C) 1 (D) -1
11. The value of m for which $x - 2$ is a factor of the polynomial $x^4 - x^3 + 2x^2 - mx + 4$ is :-
(A) 10 (B) -10 (C) 4 (D) 9
12. The factors of $2x^2 - 3x - 2$ are :-
(A) $(2x - 1)(x + 2)$ (B) $(2x + 1)(x - 2)$ (C) $(x + 1)(x - 2)$ (D) $(x - 1)(x + 2)$

13. The factors of $12x^2 - x - 6$ are
 (A) $(3x - 2)(4x + 3)$ (B) $(12x + 1)(x - 6)$ (C) $(3x + 2)(4x - 3)$ (D) $(12x - 1)(x + 6)$
14. The factors of $x^3 - 2x^2 - 13x - 10$ are :-
 (A) $(x - 1)(x + 2)(x + 5)$ (B) $(x - 1)(x - 2)(x - 5)$
 (C) $(x + 1)(x - 2)(x + 5)$ (D) $(x + 1)(x + 2)(x - 5)$
15. The expanded form of $(2x - 3y - z)^2$ is :-
 (A) $4x^2 + 9y^2 + z^2 - 6xy + 3yz - 2zx$ (B) $4x^2 + 9y^2 + z^2 + 6xy + 6yz - 2zx$
 (C) $4x^2 + 9y^2 + z^2 - 12xy - 6yz - 4zx$ (D) $4x^2 + 9y^2 + z^2 - 12xy + 6yz - 4zx$
16. The expanded form of $(x + y + 2z)^2$ is :-
 (A) $x^2 + y^2 + 4z^2 + 2xy + 2yz + 2zx$ (B) $x^2 + y^2 + 4z^2 + xy + 2yz + 2zx$
 (C) $x^2 + y^2 + 4z^2 + 2xy + 4yz + 4zx$ (D) $x^2 + y^2 + 4z^2 + 2xy + 2yz + 4zx$
17. The expanded form of $\left(x + \frac{1}{3}\right)^3$ is :-
 (A) $x^3 + \frac{1}{9} + 3x^2 + 3x$ (B) $x^3 + \frac{1}{27} + x^2 + \frac{1}{3}x$
 (C) $x^3 + \frac{1}{27} + 3x^2 + x$ (D) $x^3 + \frac{1}{27} + 3x^2 + \frac{1}{3}x$
18. $x^3 + y^3 + z^3 - 3xyz$ is :-
 (A) $(x + y - z)$ (B) $(x - y + z)^3$
 (C) $(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$ (D) $(x + y + z)^3 - 3xyz$
19. $(a - b)^3 + (b - c)^3 + (c - a)^3$ is equal to :-
 (A) $3abc$ (B) $3a^3b^3c^3$
 (C) $3(a - b)(b - c)(c - a)$ (D) $[a - (b + c)]^3$
20. $\frac{0.83 \times 0.83 \times 0.83 + 0.17 \times 0.17 \times 0.17}{0.83 \times 0.83 - 0.83 \times 0.17 + 0.17 \times 0.17}$ is equal to :-
 (A) 1 (B) $(0.83)^3 + (0.17)^3$ (C) 0 (D) None of these

EXERCISE # 1 ANSWER KEY OBJECTIVE QUESTIONS

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	B	C	D	A	C	D	C	B	D	C
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	A	B	C	D	D	C	B	C	C	A