Subject: - Mathematics

PRACTICE PAPER (MCQ) CBSE-7th

Topic: - Algebraic Expressions

1. The binomial is an algebraic expression with: - **Ans. (b)**

a) degree 2 b) two terms c) two variables d) None of these

2. Which of the following is not a polynomial: - **Ans. (c)**

a) $8x^3 + 7x^2 - 12x + 4$ b) $81a^2 + 4ab - 9b^2 - 6$

c) $a^3 - \frac{1}{a^3} + 3a^2 - \frac{3}{x^2} + 8$ d) $x^3 + y^3 + z^3 - 3xyz$

3. The degree of the polynomial 10 is: - **Ans. (b)**

a) 1 b) 0 c) does not exist d) cannot be determined

4. Adding $x^2 - y^2 - 1, y^2 - 1 - x^2$ and $1 - x^2 - y^2$, we get: - **Ans. (d)**

a) $2x^2 + 2y^2$ b) 2 c) 0 d) $-x^2 - y^2 - 1$

5. $a^2 - (-a)^2$ is equal to: - **Ans. (c)**

a) $-2a^2$ b) $2a^2$ c) 0 d) a^4

6. The constant term in the algebraic expression $1 - x^2 - x$ is: - **Ans. (b)**

a) – 1 b) 1 c) 0 d) x^2

7. The perimeter of a square of side length $'l'$ unit is: - **Ans. (a)**

a) $4l$ b) $3l$ c) $2l$ d) l^2

8. In a class of $(4y^2 + y - 8)$ students, $2y + 16$ play football and rest play basketball. How many play basketball? **Ans. (b)**

a) $4y^2 + 3y - 24$ b) $4y^2 - y - 24$ c) $4y^2 - y + 8$ d) $4y^2 + y + 24$

9. Find the value of $-4x^2y^2 + 6xy + 8x + 12y - 1$, when $x = -2, y = -1$. **Ans. (c)**

a) – 23 b) 23 c) – 33 d) 33

10. $2x^2y + 5(xy^2 + 3) - (15 + 2x^2y)$ is a: - **Ans. (b)**

a) binomial b) monomial c) trinomial d) None of above.