

RD Sharma
Solutions

Class 7

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OBJECTIVE TYPE QUESTIONS

Ch-7

Mark the correct alternative in each of the following:

1. Which of the following pairs is/are like terms?

- (1) x (2) x^2 (3) $3x^3$ (4) $4x^3$
 (a) 1, 2 (b) 2, 3 (c) 3, 4 (d) None of these

2. Which of the following is not a monomial?

- (a) $2x^2 + 1$ (b) $3x^4$ (c) ab (d) x^2y

3. The sum of the coefficients in the monomials $3a^2b$ and $-2ab^2$ is

- (a) 5 (b) -1 (c) 1 (d) -6

4. The coefficient of x^2 in $-\frac{5}{3}x^2y$ is equal to

- (a) $-\frac{5}{3}$ (b) $-\frac{5}{3}y$ (c) $\frac{5}{3}$ (d) $\frac{5}{3}y$

5. If a , b and c are respectively the coefficients of x^2 in $-x^2$, $2x^2 + x$ and $2x - x^2$ respectively, then $a + b + c =$

- (a) 0 (b) -2 (c) 2 (d) -1

6. The sum of the coefficients in the terms of $2x^2y - 3xy^2 + 4xy$ is

- (a) -3 (b) 3 (c) 9 (d) 5

7. The product of the coefficients of terms in $-\frac{4}{3}ab^2 + \frac{1}{4}bc^2 + 3ca^2$ is

- (a) 1 (b) $\frac{1}{2}$ (c) -1 (d) 3

8. If a and b are respectively the sum and product of coefficients of terms in the expression $x^2 + y^2 + z^2 - xy - yz - zx$, then $a + 2b =$

- (a) 0 (b) 2 (c) -2 (d) -1

9. If $P = 3x^3 + 3x^2 + 3x + 3$ and $Q = 3x^2 - 3x + 3$, then $P - Q =$

- (a) $3x^3$ (b) $3x^3 + 6x^2 + 6x + 6$ (c) $6x^2 + 6x + 6$ (d) $3x^3 + 6x$

10. The sum of the values of the expression $2x^2 = 2x + 2$ when $x = -1$ and $x = 1$ is

- (a) 6 (b) 8 (c) 4 (d) 2

11. What should be added to $3x^2 + 4$ to get $9x^2 - 7$?

- (a) $6x^2 - 11$ (b) $6x^2 + 11$ (c) $12x^2 - 11$ (d) $12x^2 + 11$

12. How much is $a^2 - 3a$ greater than $2a^2 + 4a$?

- (a) $a^2 - 7a$ (b) $a^2 + 7a$ (c) $-a^2 - 7a$ (d) $-a^2 + 7a$

13. How much is $-2x^2 + x + 1$ less than $x^2 + 2x - 3$?

- (a) $-x^2 + 3x - 2$ (b) $3x^2 + x - 4$ (c) $-3x^2 - x + 4$ (d) $3x^2 + 3x - 4$

14. What should be added to $xy + yz + zx$ to get $-xy - yz - zx$?

- (a) $-2xy - 2yz - 2zx$ (b) $-3xy - yz - zx$
 (c) $-3xy - 3yz - 3zx$ (d) $2xy + 2yz + 2zx$

ANSWERS

1. (c) 2. (a) 3. (c) 4. (b) 5. (a) 6. (b) 7. (c)
 8. (c) 9. (d) 10. (b) 11. (a) 12. (c) 13. (b) 14. (a)