Algebraic Expressions Worksheet – 1

1. The expression 3p + 5 + 2p is a trinomial. Mark True / False.

a) True b) False

2. The coefficient of 2a in $-2a^2b$ is ab. Mark True / False.

a) True b) False

3. The constant term in $3p^2 + 5 + 2q^2$ is 5. Mark True / False.

a) True b) False

4. In like terms variables and their powers are not same. Mark True / False.

a) True b) False

5. Sum of 2 and x is equal to 2x. Mark True / False.

a) True b) False

6. Algebraic expressions having two or more unlike terms are known as multinomial. Mark True / False.

a) True b) False

7. If we add a monomial and a binomial, then answer will always become a binomial. Mark True / False.

a) True b) False

8. The degree of the polynomial $3p^2q + 7pq + 2p^3q^2$ is 5. Mark True / False.

a) True b) False

9. -ab - (-ab) = -ab. Mark True / False.

a) True b) False

10. -5xy and 7yx can be called as like terms. Mark True / False.

a) True b) False

11. Find the value of $p^3 + q^3$ when p = 3 and q = -3.

a) 6 b) 9

c) 0 d) 54

12. $7a – 4(a^2 + b^2)$ is a _____ expression.

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a) Monomial b) Binomial

c) Trinomial d) None of these

13. The coefficient of 3p in $-3p^3qr$ is _____.

a) p^3qr b) $-p^3qr$

c) p^2qr d) $-p^2qr$

14. If a = 5, b = -1, then a^{-b} = _____.

a) 5 b) 1

c) 0 d) -5

15. If p = 3, q = -4, then q^p = _____.

a) 64 b) -64

c) 46 d) None of these

16. The perimeter of triangle having sides as 3p, 2q and (p + q) is _____.

a) 3p + 2q b) 3p – 2q

c) 4p + 3q d) None of these

17. Find the degree of the given polynomial: $5a^2 + 2ab^2 + 7$

a) 0 b) 1

c) 2 d) 3

18. Find the value of the algebraic expression $3p^3 + 2p^2 - 7p + 5$ when p = -1.

a) 14 b) 11

c) 17 d) None of these

19. If length and breadth of a rectangle are 2x + y and x + y, then find its perimeter.

a) 4x + 2y b) 6x - 4y

c) 6x + 4y d) 6x + 6y

20. Numerical coefficient of $-5a^2b$ is _____.

a) 5 b) a^2b

c) -5 d) $-5a^2$

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