ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra and Geometry **Class: 7** **Date: 23.11.20**

Duration: 40 min **Worksheet Solution 06** **Full Marks: 15**

Algebraic Expression

Choose the Correct options:

1. What is the coefficient of x^2 in the expression ax + b?
   (a) a
   (b) b
   (c) a + b
   (d) 0.
2. Which of the following pairs of terms is a pair of like terms?
   (a) 1, 10
   (b) y, -xy
   (c) z^2, Z
   (d) Z^2, 8
3. Which of the following pairs of terms is a pair of like terms?
   (a) 7xy, 14yx
   (b) m^2p, mp^2
   (c) 6xz, 12 x^2 z^2
   (d) -13x, -13y
4. Which of the following pairs of terms is a pair of like terms?
   (a) 3x, 2xy
   (b) $-xy^2$, $-2xy^2$
   (c) $-6x^2$, $20x^2y$
   (d) $8x^2$, 7y
5. Which of the following pairs of terms is a pair of like terms?
   (a) 7p, 8q
   (b) 10pq, -7qp
   (c) $12q^2p^2$, $-5p^2$
   (d) 2405p, 78qp
6. Which of the following pairs of terms is a pair of unlike terms?
   (a) $-p^2q^2$, $12q^2p^2$
   (b) 41, 100
   (c) qp^2, $13p^2q$
   (d) $-4yx^2$, $-4xy^2$
7. Add 2 mn, -4 mn, 8 mn, -6 mn
   (a) 0
   (b) 2 mn
   (c) 8 mn
   (d) 10 mn
8. Add a + b – 1, b – a + 1, 1 – 2b
   (a) 1
   (b) -1
   (c) 2
   (d) -2
9. Add $4x^2y$, $-3x^2y$, $-7xy^2$, $7xy^2$
   (a) x^2y
   (b) xy^2

(c) xy
(d) $-x^2 y$

10. Simplify : $p + (p – q) + q + (q – p)$
    (a) p
    (b) q
    (c) p + q
    (d) p – q
11. Simplify : $z^2 + 11z^2 – 5z – 11z^2 + 5z$
    (a) z^2
    (b) $-z^2$
    (c) 5z
    (d) -5z
12. Subtract – xy from xy
    (a) xy
    (b) 2xy
    (c) 3xy
    (d) 4xy
13. Subtract y^2 from $– 5y^2$
    (a) $-6y^2$
    (b) $6y^2$
    (c) y^2
    (d) $-5y^2$
14. What should be added to $x^2 + y^2$ to get $x^2 + y^2 + 2$ xy?
    (a) xy
    (b) 2xy
    (c) 4xy
    (d) -2xy
15. What should be subtracted from $x^2 + y^2 – 2$xy to get $x^2 + y^2$?
    (a) 2xy
    (b) -2xy
    (c) xy
    (d) – xy