

SECTION - A

Multiple Choice Questions

- Q.1 Choose the correct answer for each from the given options:**
- (i) $3(5+7) = 3 \times 5 + 3 \times 7$, name the property used.
 (a) commutative (b) Associative (c) Distributive (d) Closure
- (ii) The characteristic of $\log 0.000548$ is _____.
 (a) 4 (b) -4 (c) 3 (d) -3
- (iii) The degree of the $3x^2y + 5y^4 - 10$ is _____.
 (a) 4 (b) 5 (c) 6 (d) 10
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- (iv) The diagonal of _____ does not divide it into two congruent triangles:
 (a) Rectangle (b) Trapezium (c) Parallelogram (d) Square
- (v) $a^2 + b^2 + c^2 + 2ab - 2ca$ is equal to:
 (a) $(a + b + c)^2$ (b) $(a + b - c)^2$ (c) $(a - b + c)^2$ (d) $(a - b - c)^2$
- (vi) Factors of $a^2 + 2a - 24$ are:
 (a) $a + 4, a - 6$ (b) $a - 4, a - 6$ (c) $a - 8, a + 3$ (d) $a + 8, a - 3$
- (vii) HCF of $x^3 - y^3$ and $x^2 + xy - y^2$ is:
 (a) $x + y$ (b) $x - y$ (c) $x^2 - xy + y^2$ (d) $x^2 + xy + y^2$
- (viii) The _____ of a triangle cut each other in the ratio 2:1.
 (a) Altitude (b) Median (c) angle bisector (d) right bisector
- (ix) The solution set of $2(5x+5)+5 = 10$ is:
 (a) $\{4\}$ (b) $\{5\}$ (c) $\{4\}$ (d) $\{-4\}$
- (xi) The points $(-3, 4)$ lies in _____ quadrant.
 (a) First (b) second (c) Third (d) fourth
- (xii) Perpendicular from vertex to a triangle to its opposite side is called _____.
 (a) Median (b) Perpendicular bisector
 (c) Altitude (d) angle