

Multiple Choice

Part - A

- 1) Which of the following satisfies $x^2 + 2xy + z^2 = 45$?
- i) $x = 1, y = 0, z = -1$ ii) $x = 2, y = 4, z = 5$ iii) $x = -1, y = 3, z = 6$ iv) $x = 10, y = 9, z = 3$
- 2) Which of the following satisfies $u^3 + 2u + v^2 = 13$?
- i) $u = 1, v = 2$ ii) $u = 2, v = 4$ iii) $u = 3, v = 5$ iv) $u = 6, v = 13$
- 3) Which of the following satisfies $m^2 + n^2 = 10$?
- i) $m = 2, n = 1$ ii) $m = 3, n = 2$ iii) $m = 4, n = 3$ iv) $m = 6, n = 10$
- 4) Which of the following satisfies $p^2 + q^2 + r^2 = 14$?
- i) $p = 1, q = 0, r = -1$ ii) $p = 2, q = 1, r = 1$ iii) $p = 3, q = 2, r = 2$ iv) $p = 4, q = 6, r = 2$
- 1) Which of the following satisfies $a + b - c = 5$?
- i) $a + b - c = 5$ ii) $a + b - c = 10$ iii) $a + b - c = 15$ iv) $a^2 + b + 2c = 13$
- 2) Which of the following equation is true at $x = 5$ and $y = 10$?
- i) $\frac{3x + 5y}{5} = 6$ ii) $x^2 - 5y = -17$ iii) $2x + y^2 = 140$ iv) $4x - 7y = -50$
- 3) Which of the following equation is true at $p = 2$ and $q = -3$?
- i) $p^2 + 3q = -5$ ii) $p^3 - 4q = 22$ iii) $2p + 5q = -70$ iv) $\frac{p+q}{2} = \frac{1}{2}$

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