

## Multiple Choice

### Part - A

- 1) Which of the following satisfies  $(m^3 + 1)(n^2 - 4) \geq 5$ ?
- i)  $m = 2, n = 1$       ii)  $m = -2, n = 1$       iii)  $m = -1, n = 3$       iv)  $m = -2, n = 2$
- 2) Which of the following satisfies  $\frac{r-s}{2} > 3$ ?
- i)  $r = 1, s = -2$       ii)  $r = 5, s = 1$       iii)  $r = 4, s = 2$       iv)  $r = 3, s = -1$
- 3) Which of the following satisfies  $2a + 3b + c = 1$ ?
- i)  $a = 2, b = -2, c = 1$       ii)  $a = 1, b = 1, c = 1$       iii)  $a = 1, b = 1, c = 2$       iv)  $a = -3, b = -1, c = 1$
- 4) Which of the following satisfies  $2p + 3q = 1$ ?
- i)  $p = -2, q = -1$       ii)  $p = 1, q = 1$       iii)  $p = 1, q = 2$       iv)  $p = -3, q = 5$
- 1) Which of the following satisfies  $\frac{x-3y}{z} < 1$ ?
- i)  $x = 1, y = 1, z = 1$       ii)  $x = 1, y = 2, z = 1$       iii)  $x = 1, y = 1, z = 2$       iv)  $\frac{z-3x}{y} \geq 2$
- 2) Which of the following inequality is true at  $c = 1$  and  $d = 5$ ?
- i)  $cd(d - c) \leq -26$       ii)  $cd(c - d) > 6$       iii)  $cd(c - d) < -6$       iv)  $cd(d - c) \geq 26$
- 3) Which of the following inequality is true at  $u = 2, v = -4$  and  $w = -1$ ?
- i)  $u^3 + v^2 - w > 3$       ii)  $u^3 - v^2 + w \geq 3$       iii)  $u^2 - v^3 + w < 3$       iv)  $u^2 + v^2 - w \leq 3$

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