

**Multiple Choice****Part - A**

- 1) Which of the following satisfies  $(2p - 1)(q + 3r) \geq 7$ ?
- i)  $p = 4, q = 1, r = -2$    ii)  $p = 3, q = -2, r = 1$    iii)  $p = 1, q = -1, r = 2$    iv)  $p = 4, q = -2, r = 1$
- 2) Which of the following satisfies  $u^3 + v^2 + 2u^2v + 8 \leq 18$ ?
- i)  $u = 3, v = 2$    ii)  $u = 2, v = 3$    iii)  $u = 3, v = 1$    iv)  $u = 3, v = 3$
- 3) Which of the following satisfies  $2a + 3b + 4c = 1$ ?
- i)  $a = -2, b = 2, c = 1$    ii)  $a = 2, b = -2, c = 1$    iii)  $a = 2, b = 2, c = 1$    iv)  $a = -20, b = 5, c = 1$
- 4) Which of the following satisfies  $2x + 3y = 1$ ?
- i)  $x = 2, y = -3$    ii)  $x = 3, y = 2$    iii)  $x = 2, y = 3$    iv)  $x = 1, y = -2$
- 1) Which of the following satisfies  $2a + 3b + 4c = 1$ ?
- i)  $a + b^2 - 3c < 6$    ii)  $a + b^2 - 3c > 6$    iii)  $a + b^2 - 3c = 6$    iv)  $c^2 + b^3 + a \leq 6$
- 2) Which of the following inequality is true at  $m = 3$  and  $n = 4$ ?
- i)  $\frac{n^2 - 3m}{3} \geq 10$    ii)  $\frac{n + 3m}{3} \leq 10$    iii)  $\frac{-n + 13}{3} > 10$    iv)  $\frac{m^2 - 3n}{3} \geq 10$
- 3) Which of the following inequality is true at  $p = 1, q = -2$  and  $r = 5$ ?
- i)  $rq(q - p) \leq -15$    ii)  $pq(p + 3r) > -15$    iii)  $pq(2q + r^2) \geq -15$    iv)  $(p - q)(q + r) < 15$

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