

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) $x = 1, y = 1, z = 2$ iii) $x = 1, y = 2, z = 1$ 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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Multiple Choice**Part - A**

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- 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 $a + b + c = 0$?
- i) $a = 2, b = -2, c = 0$ 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 $p + q = 2$?
- i) $p = -2, q = -1$ ii) $p = 1, q = 1$ iii) $p = 3, q = 1$ iv) $p = -3, q = 5$
- 1) Which of the following satisfies $\frac{x-3y}{z} < 1$?
- i) $\frac{x-3y}{z} < 1$ ii) $\frac{x-3y}{z} > 1$ iii) $\frac{x-3y}{z} = 1$ iv) $\frac{z-3x}{y} \geq 2$
- 2) Which of the following inequality is true at $c = 1$ and $d = 5$?
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