

Multiple Choice

Part - A

1) Which of the following satisfies $(c^5 - d) - (cd + 1) \leq 4$?

i) $c = -2, d = 7$

ii) $c = 2, d = 1$

iii) $c = 3, d = -5$

iv) $c = 3, d = -1$

2) Which of the following satisfies $(m^2 - 4mn - 2n)(m - n) < 3$?

i) $m = -4, n = -2$

ii) $m = 2, n = 2$

iii) $m = 2, n = 5$

iv) $m = 4, n = 3$

3) Which of the following satisfies $x + y + z = -2$?

i) $x = 3, y = 2, z = -7$

ii) $x = 1, y = 2, z = -5$

iii) $x = 1, y = -4, z = -2$

iv) $x = 1, y = -4, z = -2$

4) Which of the following satisfies $p + q = 4$?

i) $p = -1, q = 2$

ii) $p = 1, q = 3$

iii) $p = 2, q = 2$

iv) $p = 2, q = 4$

1) Which of the following satisfies $\frac{3u}{w} + v \geq -1$?

i) $\frac{3u}{w} + v \geq -1$

ii) $\frac{3u}{w} + v \leq -1$

iii) $\frac{3u}{w} + v < -1$

: -1?

iv) $\frac{2u}{v} + w < -1$

2) Which of the following inequality is true at $s = -1$ and $t = -2$?

i) $st(t - s)^2 > 1$

ii) $st(s - 2t)^2 \leq 1$

iii) $st(s - t)^3 < -2$

iv) $st(2t - s)^3 \geq -2$

3) Which of the following inequality is true at $a = 2, b = -2$ and $c = -3$?

i) $b^2 - c^2 + ab \geq 2$

ii) $c^2 - b^2 + ab < 0$

iii) $b^2 - a^2 + ac \leq 3$

iv) $a^2 - b^2 + ac > 4$

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i) $m = -4, n = -2$

iv) $m = 4, n = 3$

3) Which of the following satisfies $(x + y + z) - (xy + yz + zx) > 0$?

i) $x = 3, y = 2, z = -1$

3 iv) $x = 1, y = -4, z = -2$

4) Which of the following satisfies $(p + q) - (pq) > 0$?

i) $p = -1, q = 2$

iv) $p = 2, q = 4$

1) Which of the following satisfies $(3u + v) - (w) < -1$?

i) $\frac{3u}{w} + v \geq -1$

: -1?

iv) $\frac{2u}{v} + w < -1$

2) Which of the following inequality is true at $s = -1$ and $t = -2$?

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