

**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  $(x + y + z) - (xy + yz + zx) < 3$ ?

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

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

iii)  $x = 2, y = 2, z = 5$

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

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

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

ii)  $p = 2, q = 2$

iii)  $p = 2, q = 4$

iv)  $p = 2, q = 4$

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

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

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

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

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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