

Multiple Choice**Part - A**

1) Which of the following satisfies $(x^2 + 4xy + y^2)(y + 1) < 17$?

i) $x = 1, y = 5$

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

iii) $x = 5, y = 1$

iv) $x = 1, y = 2$

2) Which of the following satisfies $p^5 + 4p^3q + r > 20$?

i) $p = 0, q = 2, r = -4$

iv) $p = -3, q = -1, r = 5$

3) Which of the following

i) $m = 5, n = 4$

iv) $m = 2, n = -1$

4) Which of the following

i) $a = 5, b = -2, c =$

iv) $a = 0, b = 8, c = 1$

1) Which of the following

i) $r^3 + s^2 + 14 \leq -13$

iv) $r^2 + s^3 - 2 < 12$

2) Which of the following inequality is true at $u = 2, v = 4$ and $w = 7$?

i) $uv(w + v) > 30$

ii) $(v - w)(u + v) > 30$

iii) $v^2u(v - w) \geq -30$

iv) $(u+v)(3u - w) \leq -30$

3) Which of the following inequality is true at $c = 5$ and $d = -7$?

i) $\frac{c + 3d}{2} < -13$

ii) $\frac{c - 3d}{2} \leq 13$

iii) $\frac{d + 5c}{2} > 13$

iv) $\frac{d - 3c}{2} \geq 13$

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