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) \(m = -3, n = -2\)  
   iii) \(m = 3, n = 5\)  
   iv) \(m = 4, n = 3\)

3) Which of the following satisfies \((m^2 - 4mn - 2n)(m - n) < 3\)?
   i) \(x = 3, y = 2, z = -1\)  
   ii) \(x = -4, y = 3, z = 2\)  
   iii) \(x = -2, y = 1, z = 3\)  
   iv) \(x = 1, y = -4, z = -2\)

4) Which of the following satisfies \(p^6(p - q) + 5 > 6\)?
   i) \(p = -1, q = 2\)  
   ii) \(p = 1, q = -1\)  
   iii) \(p = -2, q = -1\)  
   iv) \(p = 2, q = 4\)

1) Which of the following inequality is true at \(u = 2, v = -4\) and \(w = -1\)?
   i) \(\frac{3u}{w} + v \geq -1\)  
   ii) \(\frac{2u}{v} + w < -1\)

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) \(a^2 - b^2 + ac > 4\)
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) \(m = -2, n = 5\)        ✗\(m = 4, n = 3\)

3) Which of the following satisfies \(x = 3, y = 2, z = -1\)?
   i) \(x = 3, y = 2, z = -1\)    ii) \(x = 3, y = 2, z = 2\)    iii) \(x = -4, y = 3, z = 2\)    iv) \(x = -2, y = 1, z = 3\)

4) Which of the following satisfies \(p^6(p - q) + 5 > 6\)?
   i) \(p = -1, q = 2\)    ii) \(p = 1, q = -1\)    iii) \(p = -2, q = -1\)    iv) \(p = 2, q = 4\)

1) Which of the following inequality is true at \(u = 2, v = -4\) and \(w = -1\)?
   i) \(\frac{3u}{w} + v \geq -1\)    ✗\(\frac{2u}{v} + w < -1\)

2) Which of the following inequality is true at \(s = -1\) and \(t = -2\)?
   ✗\(st(t - s)^2 > 1\)    \(st(s - 2t)^2 \leq 1\)    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) \(c^2 - b^2 + ab < 0\)    ✗\(b^2 - a^2 + ac \leq 3\)    iv) \(a^2 - b^2 + ac > 4\)