

Note 1. Scientific Calculators are Not allowed.

2. If there is no answer in the options write as "None"

SECTION-A

Answer all the MCQ, each question carries 1 marks.

5X1=5M

1. If $\sqrt{2} + \sqrt{5}$ & $\frac{4}{3}$ are roots of $3x^5 + 2kx^4 - 42x^3 + 56x^2 + 27x - 36 = 0$
Then $k = ?$
A) 2 B) -2 C) 4 D) -4
2. (i) $x^6 - 2x^5 + 3x^3 - 3x^2 + 2x - 1 = 0$ is reciprocal equation of class two.
(ii) The polynomial equation whose roots are squares of the roots of $x^3 - x^2 + 8x - 6 = 0$ is $x^3 + 15x^2 + 52x - 36 = 0$
A) (i) is False & (ii) is True C) (i) is True & (ii) is False
B) Both (i) & (ii) are False D) Both (i) & (ii) are True
3. Each of 3, one mark questions in a multiple choice question Test has 4 options. Then in how many different possible ways a student will not get 3 marks, when exactly one of the four options is correct. [All the questions must be answered]
A) 12 B) 81 C) 64 D) 63

