Marthoma Residential school, Thiruvalla

**I - Assessment Examination 2020-’21** Max.Marks : 20

Standard - X Mathematics Time: 30minutes

*Answer all questions*

***Question I***

1. The 19th term of an A.P is equal to three times its 6th term. If its 9th term is

19, find the A.P [3]

2. A man deposits Rs.1600 per month in a RD account for 3 years at the rate

of 9% per annum simple interest. Find the amount he will get at the time

of maturity. [3]

3. If x3 - 2x2 + px +q has a factor (x+2) and leaves a reminder 9 when divided

by x + 1, find the values of p and q. [4]

***Question II***

1. Find the matrix X, given that + 2X = [3]

2. Solve x ‒ = 3, using formula and give your answer correct to 3 significant

figures. [3]

3. A box contains cards bearing numbers from 85 to 100. If one card is drawn

at random from the box, find the probability that the number on the

card is (i) a prime number. (ii) a perfect square number.

(iii) a number divisible by 7. (iv) a number divisible by 6. [4]

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