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 $\left[\begin{matrix}3&7\\2&4\end{matrix}\right]$ $\left[\begin{matrix}0&2\\5&3\end{matrix}\right]$ + 2X = $\left[\begin{matrix}1&-5\\-4&6\end{matrix}\right]$ [3]

 2. Solve x ‒ $\frac{1}{x}$ = 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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