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Enroll No.....

BAG-5107

B.Sc. Agriculture (Math's) –I sem. (Reg./Ex)

Examination, March-2021

Elementary Mathematics

Time: Three Hours

Maximum Marks:50

Note: Attempt any five questions. (Each question carries equal marks)

Q.5 Find A^{-1} if $A = \begin{pmatrix} 1 & 2 & 3 \\ 1 & 3 & 4 \\ 1 & 4 & 3 \end{pmatrix}$

Q.6 Discuss the maximum and minimum function.

Q.7 Find the equation of the tangent line to a curve at a point.

Q.8 Calculate the gradient of a curve at any point.

Q.1 Define square matrix and upper triangular matrix.

Q.2 Evaluate $\lim_{x \rightarrow a} \frac{x^3 - a^3}{x - a}$

$$\lim_{x \rightarrow a} \frac{x^3 - a^3}{x - a}$$

Q.3 Find -

$$\frac{dy}{dx} \text{ if } y = x^5 \cos x$$

Q.4 (a) Solve - $\int (5e^x - \frac{1}{3x} + 2a^x + 10) dx$

(b) Solve - $\int \tan^{-1} x dx$