



21102420

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B.Sc DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021**First Semester****Complementary Course - MM1CMT01 - MATHEMATICS - PARTIAL DIFFERENTIATION, MATRICES, TRIGONOMETRY AND NUMERICAL METHODS**

(Common to B.Sc Chemistry Model I, B.Sc Chemistry Model II Industrial Chemistry, B.Sc Chemistry Model III Petrochemicals, B.Sc Electronics and Computer Maintenance Model III, B.Sc Food Science & Quality Control Model III, B.Sc Geology and Water Management Model III, B.Sc Geology Model I, B.Sc Physics Model I, B.Sc Physics Model II Applied Electronics, B.Sc Physics Model II Computer Applications & B.Sc Physics Model III Electronic Equipment Maintenance)

2017 Admission Onwards

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Time: 3 Hours

Max. Marks : 60

Part A*Answer any ten questions.**Each question carries 2 marks.*

- Find an equation for the level curve of the function $f(x, y) = \sqrt{x^2 - 1}$ that passes through the point $(1, 0)$.
- The plane $x = 1$ intersects the paraboloid $z = x^2 + y^2$ in a parabola. Find the slope of the tangent to the parabola at $(1, 2, 5)$.
- Write a chain rule formula for the derivative $\frac{dz}{dt}$ if $z = f(x, y)$, $x = g(t)$, $y = h(t)$.
- Reduce the matrix $A = \begin{bmatrix} 3 & 6 \\ 4 & 3 \end{bmatrix}$ into its normal form.
- Write the matrix equation of the system of linear equations $2x + 3y + 4z = 0$, $4x + 3y + 4z = 0$, $5x - 2y + 4z = 0$.
- Define characteristic root of a square matrix. Give examples.
- Express $\cos 3\theta$ in terms of $\cos \theta$.
- Expand $\sin^4 \theta$ in a series of cosines of multiples of θ .
- Prove that $\cosh(x - y) = \cosh x \cosh y - \sinh x \sinh y$.
- Write the binomial expansions of $(1 + x)^n$ and $(1 - x)^{-n}$ when n is a rational number.
- Find a real root of the equation $x = (5 - x)^{1/3}$ using the iteration method, by taking the first approximation as $x_0 = 1.5$.
- Give the first and second approximations to the root of an equation $f(x) = 0$, using the Newton - Raphson method.

(10×2=20)



Polytechnic 2013 First Sem Maths Question Paper

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Polytechnic 2013 First Sem Maths Question Paper:

Polytechnic 2013 First Sem Maths Question Paper Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Polytechnic 2013 First Sem Maths Question Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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