



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

71746F8A

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

Wayne C. Thompson



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Reviewing **Polytechnic 2013 First Sem Maths Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Polytechnic 2013 First Sem Maths Question Paper**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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