

Max. Marks: 80



QP CODE: 21102420

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

Part A

Answer any ten questions.

Each question carries 2 marks.

- Find an equation for the level curve of the function f(x, y) = √x² − 1 that passes through the point (1, 0).
- 2. The plane x=1 intersects the paraboloid $x=x^2+y^2$ in a parabola. Find the slope of the tangent to the parabola at (1,2,5).
- 3. White a chain rule formula for the derivative $\frac{dx}{dt}$ if $z=f(x,y), \ x=g(t), \ y=h(t).$
- 4. Reduce the matrix $A = \begin{bmatrix} 3 & 6 \\ 4 & 3 \end{bmatrix}$ into its normal form.
- 5. 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 3θ in terms of cos θ.
- 8. 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.
- 10. Write the binomial expansions of $(1+x)^n$ and $(1-x)^{-n}$ when n is a rational number.
- 11. Find a real root of the equation $x = (5 x)^{1/3}$ using the iteration method, by taking the first approximation as $x_0 = 1.5$.
- 12. Give the first and second approximations to the root of an equation f(x) = 0, using the Newton-Raphson method.

 $(10 \times 2 = 20)$



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