

I B. Tech I Semester Regular Examinations, July/August-2021
MATHEMATICS-I
 (Com. to All Branches)

Time: 3 hours

Max. Marks: 70

Answer any five Questions one Question from Each Unit
All Questions Carry Equal Marks

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1. a) Examine the convergence of $\sum \frac{[(n+1)!]^2 x^{n+1}}{n}$, $(x > 0)$ (7M)
 b) Find Maclaurin's series expansion of the $f(x, y) = \sin^2 x$ and hence find the approximate value of $\sin^2 16^\circ$. (7M)
- Or**
2. a) Prove using mean value theorem $|\sin u - \sin v| \leq |u - v|$. (7M)
 b) Examine the convergence of $x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots (x > 0)$. (7M)
3. a) Solve $(x + 2y^3) \frac{dy}{dx} = y$. (7M)
 b) Solve $(5x^4 + 3x^2y^2 - 2xy^3)dx + (2x^3y - 3x^2y^2 - 5y^4)dy = 0$ (7M)
- Or**
4. a) Find the orthogonal trajectories of $r^2 = a \sin 2\theta$. (7M)
 b) Solve $(xysinx + \cos xy) ydx + (xysinx - \cos xy) xdy = 0$. (7M)
5. a) Solve $(D^2 - D)y = 2x + 1 + 4\cos x + 2e^x$ (7M)
 b) In an L-C-R circuit, the charge q on a plate of a condenser is given by (7M)

$$\frac{d^2q}{dt^2} + R \frac{dq}{dt} + \frac{q}{C} = E \sin pt$$

where R is the resistance, C is the capacitance, E is the electromotive force and p is the frequency of the alternating current.

or

6. a) Find $\int \frac{1}{x^2 + 1} dx$ (7M)
 b) Find $\int \frac{1}{x^2 + 4} dx$ (7M)
7. a) Find $\int \frac{1}{x^2 + 1} dx$ (7M)
 b) Find $\int \frac{1}{x^2 + 4} dx$ (7M)

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Terry C. Jones



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