

Code No: S201

OR

I B.Tech.(CCC) Supplementary Examinations, June 2009**MATHEMATICS-I**

(Common to Civil Engineering, Electrical & Electronic Engineering,
Mechanical Engineering, Electronics & Communication Engineering and
Computer Science & Engineering)

Time: 3 hours

Max Marks: 100

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Trace the curve $y(x^2+a^2)=a^3$.
(b) Determine the surface area of the solid generated when laminiscate of Bernoulli $r^2 = a^2 \cos 2\theta$ revolves about the initial line. [10+10]
2. (a) Find the C.G of the arc of the astroid lying in the first quadrant.
(b) Expand $\sin x$ in powers of $(x - \frac{\pi}{2})$. [10+10]
3. (a) If $u = \tan^{-1}(\frac{x^2+y^2}{x-y})$, Prove that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = \sin 2u$
(b) If $u = \sin(x^2 + y^2)$, where $a^2 + x^2 + b^2 y^2 = c^2$, find $\frac{\partial u}{\partial c}$.
(c) If the horse power to propel a steamer varies as the cube of the velocity and square of the length, prove that a 3% increase in velocity and 4% increase in length will require an increase of about 17% in horse power. [7+7+6]
4. (a) Determine the rank of the matrix $A = \begin{bmatrix} 2 & 1 & -3 & -6 \\ 3 & -3 & 1 & 2 \\ 1 & 1 & 1 & 2 \end{bmatrix}$
(b) Prove that the matrix $A = \begin{bmatrix} \frac{\cos \theta}{\sin \theta} & \frac{\sin \theta}{\cos \theta} \\ \frac{\sin \theta}{\cos \theta} & \frac{\cos \theta}{\sin \theta} \end{bmatrix}$ is orthogonal.
(c) Show that every square matrix can be uniquely expressed as a sum of a symmetric and a skew symmetric. [7+7+6]
5. (a) Obtain Fourier series expansion of the function $f(x) = x \sin x$ in the interval $-\pi < x < \pi$.
(b) Find the Fourier series for the function

$$f(x) = 1 + \frac{2x}{\pi}, \quad -\pi \leq x \leq 0$$

$$= 1 - \frac{2x}{\pi}, \quad 0 \leq x \leq \pi$$
Deduce that $\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots = \frac{\pi^2}{6}$. [10+10]
6. (a) i. Solve $(1+y^2) + (x - e^{\tan^{-1}y}) \frac{dy}{dx} = 0$
ii. $x^2 y dx - (x^3 + y^3) dy = 0$.
(b) Find the orthogonal trajectories of the family of cardioids $r=a(1-\cos \theta)$ when 'a' is the parameter. [7+6+7]

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