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Total No. of Pages : 03

Total No. of Questions : 09

B.Tech. (CSE/ME/ECE/CE/IT/EE/EEE) (Sem.-1)

ENGINEERING MATHEMATICS-I

Subject Code : BTAM-101

M.Code : 54091

Date of Examination : 08-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Solve the following:

a) Find the curvature of the curve $r = a \sin \theta + b \cos \theta$ at any θ .

b) Find the total length of the curve $r = a \sin^3 (\theta/3)$.

c) If $u(x, y) = \cos^{-1} \left(\frac{x+y}{\sqrt{x} + \sqrt{y}} \right)$, $0 < x, y < 1$, then prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = -\frac{1}{2} \cot u$.

d) Find the relative maximum and minimum values of the function

$$f(x, y) = xy + (9/x) + (3/y).$$

e) If $z = f(ax - by)$, then show that $b \frac{\partial z}{\partial x} - a \frac{\partial z}{\partial y} = 0$.

f) Evaluate $\iint_R e^{x^2} dx dy$, where the region R is given by $R : 2y \leq x \leq 2$ and $0 \leq y \leq 1$.

g) Prove that $\nabla r^n = nr^{n-2} \vec{r}$, where $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$.

Mathematics Paper 1 and 2 Exemplars For Grade 12 2014

**Jeannie Oakes, Martin Lipton, Lauren
Anderson, Jamy Stillman**



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