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Total No. of Pages : 03

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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 $R : 2y \le x \le 2$ and $0 \le y \le 1$.

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

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