

FACULTY OF ENGINEERING
B.E. I - Semester (AICTE) (Main) Examination, July 2021

Subject: Mathematics - I

Time: 2 Hours

Max. Marks: 70

- Note:** (i) First question is compulsory and answer any three questions from the remaining six questions.
 (ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
 (iii) Missing data, if any, may be suitably assumed.

1 Answer any four questions.

(4 x 4 = 16 Marks)

- (a) Examine the convergence of the sequence $\{x_n\}$ where $x_n = 3 + \frac{1}{n}$.
 (b) Determine the nature of the series $\sum_{n=1}^{\infty} \frac{n^n}{3^n}$.
 (c) Using Lagrange mean value theorem, show that $|\cos b - \cos a| \leq |b - a|$.
 (d) If $f(x, y) = x \cos y + e^x \sin y$, $x = t^2 - 1$, $y = t^2 + 1$, then find $\frac{df}{dt}$ at $t = 0$.
 (e) If $z = x^2 + y^2 - 3xyz$ then find $\frac{\partial^2 z}{\partial x^2}$, $\frac{\partial^2 z}{\partial x \partial y}$, $\frac{\partial^2 z}{\partial y^2}$.
 (f) Find the area of the region bounded by the curves $x = y^2$, $x + y - 2 = 0$.
 (g) If $\vec{r} = x\hat{i} + y\hat{j} + z\hat{k}$ then show that (i) $\nabla \cdot \vec{r} = 3$ (ii) $\nabla \times \vec{r} = 0$.

(3x18 = 54 Marks)

- 2 (a) Determine the nature of the series $\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{(2n-1)}$.
 (b) Determine the nature of the series $\sum_{n=1}^{\infty} \frac{(n)^n}{(n^n)^n}$.
 3 (a) Find 'c' of Cauchy's mean value theorem for $f(x) = \log_e x$ and $g(x) = 1/x$ in the interval $[1, e]$.
 (b) Find the radius of curvature at any point on the cardioid $r = a(1 - \cos \theta)$.
 4 (a) If $z = f(x + iy) + g(x - iy)$, show that $\frac{\partial^2 z}{\partial x^2} = a^2 \frac{\partial^2 z}{\partial y^2}$.
 (b) Expand $e^x \log(1 + y)$ in powers of x and y up to the terms of third degree using Taylor's theorem.

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web feb 4 2018 the code from this page is for assigning a centroid to each object in an image and measure the distance from the centroid to the boundary of object and you used some lines of that code which didn't give the desired result you use some extra unnecessary coding assignments and variables that just make it unstructured please make it

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web jan 13 2021 1 link if you have a data set of numeric features then you can train a deep learning network using a feature input layer the below code is a simple example on how to use the feature input layer theme copy xtrain 0 0 0 1 1 0 1 1 input features number of observations x number of features