#### 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 (a, ) where a, -3 (b, 1) -
- (b) Determine the nature of the series  $\sum_{i=1}^{n}$ .
- (c) Using Lagrange mean value theorem, show that loss b jets u s b -
- (d) if  $f(x,y) = x \cos y + x^2 \sin y, x x^2 + 1, y x^2 + 1$ , then first  $\frac{df}{dt}$  at x = 0.
- (e) If  $z = x^2 y^2 3 \exp$  then find  $\frac{\partial^2 x}{\partial x^2}$ ,  $\frac{\partial^2 x}{\partial x \partial y}$ .
- (f) Find the area of the region bounded by the curves x = y\*, x = y 2 = e.
- (g) If r = m + y + x then show that (i) v ? 3 (ii) v xr = 0.

(3x18 = 54 Marks)

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

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