



Punjab Engineering College (Deemed to be University), CHANDIGARH
Mid Term Examination (2022)

Programme: B.E. (Aero, Civil, Mechanical, Meta, Production)
 Course Name: Calculus and Ordinary differential equation
 Maximum Marks: 25

Year/Semester: 22231
 Course Code: MA1101
 Time allowed: 1 Hour 30 minutes

NOTES:

- All questions are compulsory
- The candidates before starting to write the solutions, should please check the question paper for any discrepancy and also ensure that they have been delivered the question paper of right course code.

Q.No.	Questions	Marks
Q1	Check the convergence of the following series (a) $\sum_{n=1}^{\infty} \frac{8E \ln^{-1} n}{1+n^2}$ (b) $\sum_{n=1}^{\infty} \frac{4^n n! n^2}{(2n)!}$	3+2=5
Q2	Identify the values of x, for which the series converges (i) absolutely (ii) conditionally. $\sum_{n=1}^{\infty} \frac{(-1)^n}{n^2} (3x-1)^2$. Also, find the radius and interval of convergence.	5
Q3	Find $f_{xy}(0,0)$ for the function $f(x,y) = \begin{cases} xy \frac{x^2 - y^2}{x^2 + y^2}, & (x,y) \neq (0,0) \\ 0, & (x,y) = (0,0) \end{cases}$	5
Q4	If $w = f(x,y)$ is a differentiable function and $x = r \cos \theta$, $y = r \sin \theta$, then show that $\left(\frac{\partial f}{\partial x}\right)^2 + \left(\frac{\partial f}{\partial y}\right)^2 = \left(\frac{\partial w}{\partial r}\right)^2 + \frac{1}{r^2} \left(\frac{\partial w}{\partial \theta}\right)^2$	5
Q5	Find the absolute maxima and minima of the function $f(x,y) = x^2 + y^2$ on the closed triangular plate bounded by the lines $x = 0$, $y = 0$ and $y + 2x = 2$ in the first quadrant.	5

Ans. Q1 =
 22/12/22
 Sumit
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