

10:00 AM



PANUYET eeeee....



Type equation here.

MINOR-1

CLASS – EEE

SEMESTER - 2

SUBJECT - DIFFERENTIAL EQUATION

DO ANY FIVE QUESTIONS.

M.M. 30

QUE. 1 Find the general solution of the differential equation $(D^3 - 3D^2 - 6D + 8)y = xe^{-x} + \sin(3x) + \cosh(5x)$.

QUE.2 Find the general solution of $(D^3 + D)Y = \sec x$

QUE.3 Solve the given differential equation $(2xy^2 + y)dx + (x + 2x^2y - x^4y^3)dy = 0$

QUE.4 Solve the differential equation $y' - \cot y + x \cot y = 0$

QUE.5 Find the power series solution in terms of x of the following differential equation $(x^2 - 1)y'' + 3xy' + xy = 0$; $y(0) = 4$ and $y'(0) = 6$

QUE.6 Find the general solution of $y'' + 3y' + 2y = e^{e^x}$

