

Internal Assessment Examination - 2021

Subject - Mathematics, Sem - II

Subject Code: MTMGCOR02T / MTMHGEO2T

F.M. - 10 Marks. Time allotted: 45 min.

Answer any two questions from the following: $2 \times 5 = 10$

1. Find the differential equation of all circles touching the x-axis at the origin.

2. Solve: $\frac{y(x+y)}{x(y-x)}$

3. Examine whether the differential equation $(2x^3 + 4y) dx + (4x + y - 1) dy$ is exact or not hence solve it.

4. Solve: $y = px + q/p$

5. Solve: $x dx + y dy + \frac{x dy - y dx}{x^2 + y^2} = 0$

6. Solve: $\frac{dy}{dx} + \frac{y}{x} \log y = \frac{y}{x^2} (\log y)^2$

Answers send to mail id: prafulla_d2003@yahoo.co.in
if any problem to do send it whatsapp no. 9433437852