

Prabhat Kumar College, Contai

Department of Mathematics

2nd Semester Mathematics (General) CBCS Pattern

Paper: DSC-2B

Time: 1 hours

Answer any one :-

1. Solve $\left(xy^2 - e^{\frac{1}{x^3}} \right) dx - x^2 y dy = 0$

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

3. Solve $p^3 - 4xyp + 8y^2 = 0$

4. Solve $3p^2y^2 - 2xyp + 4y^2 - x^2 = 0$