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B.Sc(H)C.S.

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : 7467 HC

Unique Paper Code : 32355301

Name of the Course : Generic Elective for
Honours : Mathematics

Name of the Paper : Differential Equations

Semester : III

Time : 3 Hours Maximum Marks : 75

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
 - (b) Attempt all questions by selecting any two parts from each question.
1. (a) Solve the differential equation by finding an integrating factor:

$$(e^{x^2} + ye^x)dx + (xe^x - 1)dy = 0$$

6.5

- (b) Solve the differential equation
- $$y' = 5.7y - 6.5y^2.$$
- 6.5

- (c) Find the orthogonal trajectories of $x = e\sqrt{y}$.

P.T.O.

Bsc Mathematics Thiruvalluvar University Sem3 Text

Rana U.S.



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