University

Class Test

Student ID: **Program:**   **Semester: Fall 2024**

Course Code: MAT211   **Course Title: Engineering Mathematics** **Section: 65_I**

Date: 11/09/24   **Signature of the Course Teacher:**   **Class Test No.: 1**

Marks: 15   Time: 35 Minutes

Q-1	i.	Write down the definition of particular solution.	1
	ii.	Distinguished between linear and non-linear ODE.	3
	iii.	Solve the ODE $\dfrac{dy}{dx} = e^{x+y} + x^2 e^{x^3+y}$.	5
	iv.	Find the differential equation of a family of circles touches both axes.	6

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