Daffodil International 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

WRITING START HERE