

Daffodil International University
Department of Electrical and Electronic Engineering
Course Code: 0541-123
Title: Ordinary & Partial Differential Equations

Student ID: 212-33-243

Time: 25 Minutes

Class test-2

Set: B

Marks: 15

1. Solve the following first order first degree D.E.-

3 × 5

a) $\frac{dy}{dx} = x + y$

b) $\frac{dy}{dx} = \frac{y}{x} + \cot \frac{y}{x}$

c) $(1 + p) \frac{dt}{dp} + t = 1$

$\frac{dy}{dx} = x + y$

$\frac{1}{1+x}$