

# Daffodil International University

Department of CSE

Course Code: MAT211

set:A

Course Title: Engineering Mathematics

Quiz: 02

Section: 65\_C

Time: 35 Mins

01. Solve the differential equation  $\frac{dy}{dx} = \tan(x + y + 6)$

5

02. Solve the differential equation  $\frac{dy}{dx} + x \sin 2y = x^3 \cos^2 y$

5

03. Solve the differential equation  $\frac{dy}{dx} - \frac{x^2 - xy + y^2}{xy} = 0$

5

# Daffodil International University

Department of CSE

Course Code: MAT211

set:B

Course Title: Engineering Mathematics

Quiz: 02

Section: 65 C  
Time: 35 Mins

01. Solve the differential equation  $\frac{dy}{dx} = \sin(x + y) + \cos(x + y)$  5
02. Solve the differential equation  $\frac{dy}{dx} + \frac{1}{x}y = x\sqrt{y}$  5
03. Solve the differential equation  $x^2ydx - (x^3 + y^3)dy = 0$  5