Daffodil International University

Department of CSE

Course Code: MAT211 **set:A** **Section: 65_C**

Course Title: Engineering Mathematics **Quiz: 02** **Time: 35 Mins**

01. Solve the differential equation $\frac{dy}{dx} = \tan(x + y + 6)$ 5

02. Solve the differential equation $\frac{dy}{dx} + xsin2y = x^3cos^2y$ 5

03. Solve the differential equation $\frac{dy}{dx} - \frac{x^2-xy+y^2}{xy} = 0$ 5

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Course Code: MAT211 **Section: 65_C**

Course Title: Engineering Mathematics **Quiz: 02** **Time: 35 Mins**

set:B

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