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Daffodil International University

Department of CSE

Course Code: MAT211 **set:B** **Section: 65_B**

Course Title: Engineering Mathematics **Quiz: 01** **Time: 30 Mins**

01. Give the answer (with explanation) to the following questions 4

a) Mention the order and degree of $\left(\frac{dy}{dx}\right)^3 = \sqrt[5]{\left(\frac{d^3y}{dy^3}\right)^4 + y}$

b) Write down the conditions of non-Linear equation with example

02. Find the differential equation of the solution $xy = Ae^{2x} + Be^{-2x} + x^2$ 5

03. Solve the equation $\frac{dy}{dx} = \frac{xy+3x-y-3}{xy-2x+4y-8}$ 6