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Daffodil International University

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**Department of Software Engineering**

Discrete Mathematics, Course code: SE123, Quiz-1, MSI

Total Marks: 15 Time: 30 minutes

Answer all the questions.

1 A university has a scholarship policy based on two conditions: The university states:

"If a student has a CGPA above 3.50 or does not have at least 85% attendance, then the student must have both a CGPA above 3.50 and at least 85% attendance to receive the scholarship."

(a) Define logic and proof. Express your opinion which type of statement of above policy. 5

(b) Construct the university's policy into propositional logic and show the truth table. 5

(c) Analysis the crucial role of discrete mathematics in our real life applications. 5