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Daffodil International University

Class Test

Student ID: 253-15-865 Program: B. Sc. in CSE Semester: Fall Year: 2026

Course Code: CSE212 Course Title: Discrete Mathematics Section: Date: 6/10/2026

Class Test No: 01 Signature of the Course Teacher:.....

Q1. Answer the following questions in one line. [3]

a) Which Program Outcome is titled "Modern Tool Usage"?

b) Which domain of Bloom's Taxonomy relates to attitudes, values and ethics?

c) Which knowledge profile covers Engineering Design Knowledge?

Q2. State the converse, contrapositive, and inverse of the following conditional statement in English. [3]

The program compiles successfully whenever the syntax is correct and all the required libraries are imported.

Q3. Verify the following logical equivalence using the truth table. [5]

$$(p \rightarrow q) \rightarrow r \equiv (\neg p \rightarrow r) \wedge (q \rightarrow r)$$

Q4. Suppose 30 students study Mathematics (M), 25 study Physics (P), 20 study Chemistry (C), 10 stud both Mathematics and Physics, 8 study both Mathematics and Chemistry, 6 study both Physics and Chemistry, and 3 study all three subjects. Find the number of students studying exactly two subjects.