



Quiz_4

Department of Computer Science and Engineering (CSE)

Daffodil International University

Student's ID: Program: Semester: Year:

Course Code: Course Title: Section: Date:

Class Test No: Signature of the Course Teacher: Set: B

Answer any one of the following questions.

Question 1

(5+5+5) = 15 Marks

- a) Why *slotted ALOHA* is better than pure ALOHA? Justify your logic.
- b) A slotted ALOHA network transmits 200-bit frames on a shared channel of 200 kbps. What is the throughput if the system (all stations together) produces
 - i) 1000 frames per second
 - ii) 500 frames per second
 - iii) 250 frames per second.
- c) Compare *Polling* and *Token passing* with necessary diagram.

Question 2

(7+4+4) = 15 Marks

- a) Suppose you have 4 stations (A, B, C and D).
 A is sending 1,
 C and D are sending 0 &
 B remains silent
 Examine the CDMA multiplexing values using the Walsh table.
- b) Which of the CSMA (CSMA/CD or CSMA/CA) is used in traditional ethernet?
 Explain that with proper figure.
- c) CSMA is based on the principle "listen before talk". Judge the statement.

CAO Quiz_4

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Date: 15th April 2025 @ 1:00 pm, Section (65_B)