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Daffodil International University
Department of Innovation & Entrepreneurship
Midterm Examination, Fall 2026

Course Code: 0611-111 **Course Title:** Computer Fundamentals

Semester: Fall **Examination:** Midterm

Time: 1 hour 30 minutes **Full Marks:** 25

Section: 32-A & 32-B & 30-A **Initial:** SS

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1	**Explain** what a process is, and with the help of the process state diagram, describe how a process moves between the states.	[5]	CLO-1 Level-2
2	(a) **Convert** the decimal value 4792 to hexadecimal.	[3]	CLO-2 Level-3
	(b) **Construct** the logic circuit for $Y = (A \oplus B) \cdot (C + \bar{D})$ and build its truth table.	[7]	
3	(a) A program spreads by copying itself from one computer to another across the office network. On each machine it appears as its own separate file instead of attaching to any existing program. **Identify** whether it is a worm or a virus and explain your answer.	[5]	CLO-2 Level-3
	(b) A company suffers a data leak. One employee handles both data entry and auditing, old printouts are dumped in open bins, and all staff share the same password. **Identify** the correct data security technique to fix each weakness.	[5]	