



# Daffodil International University

Faculty of Science & Information Technology  
Department of Computer Science and Engineering  
Mid Semester Examination, Fall-2024

Course Code: CSE112 Course Title: Computer Fundamentals

Level: 1 Term: 1 Batch: 67

Exam Duration: 1.5 Hours

Marks: 25

**Answer ALL the Questions**

*[The figures in the right margin indicate the full marks and corresponding course outcomes.]*

1.		Describe the role and operation of the following components in a basic computer system:  i. Control Unit ii. Arithmetic Logic Unit (ALU) iii. Memory Unit  Use a block diagram of basic computer organization to illustrate your explanation on how these components work together to execute a simple instruction.	[5]	CO1
2.	a)	What are the primary properties for considering anything as a system? Provide proper example.	[2.5]	
	b)	Demonstrate the step by step process of data processing activity.	[2.5]	
3.	a)	Compare the impact and non-impact printers.	[2]	
	b)	Compare the Fixed word length and Variable word length memory.	[3]	CO2
4.	a)	Perform the following conversions: i. $(43752)_8 = (?)_{16}$ ii. $(4DF9C)_{16} = (?)_{10}$ iii. $(132)_4 = (?)_6$	[6]	
	b)	Perform the following binary operations and show all steps: i. $10110101 + 01110101 = ?$ ii. $10000010 - 01010111 = ?$	[4]	

Lazor  
Lege  
Lugen  
Ligen

input data →

Storage