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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]**	
4.	***a)***	**Perform** the following conversions: **i.** $(41752)_8 = (?)_{16}$ **ii.** $(4DF9C)_{16} = (?)_{10}$ **iii.** $(132)_4 = (?)_6$	**[6]**	**CO2**
	b)	**Perform** the following binary operations and show all steps: i. 10110101 + 01110101=? ii. 10000010- 01010111=?	**[4]**	