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Daffodil International University

Department of Computing and Information System (CIS)
Final Examination: Fall Semester-2024
Program: B.Sc. in CIS
Course Code: COF101
Course Title: Computer Fundamentals

Total Time: 2 hours **Total Marks: 40**

(Answer all the following questions)
[The figures in the right margin indicate full marks for the respective questions]

1.		Questions	Marks	
	(a)	Justify the reasons why the performance of I series microprocessor is better than Pentium serious microprocessor?	[4]	CLO-4
	(b)	Explain the functions of different level of the Cache memory and also provide justifications how it is responsible for performance of the computer? Which device of the computer is solely responsible for overall performance of the computer?	[6]	CLO-4

2.		Questions	Marks	
	(a)	Explain the features of the following architecture of the microprocessor -Reduced Instruction Set Computer (RISC), Complex Instruction Set Computer (CISC).	[5]	CLO-1
	(b)	List down the functions of the Microprocessor. Briefly explain with block diagram how microprocessor works.	[1+4]	CLO-1

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3.		Questions	Marks	
	(a)	Define the main functions of windows operating system and also explain the memory management of the operating system.	[6]	CLO-2
	(b)	Convert the following **decimal number-250** to binary and **hexadecimal number-E5** to binary.	[4]	CLO-2

4.		Questions	Marks	
	(a)	Define the term malware and distinguish between active attack and passive attack with example.	[3]	CLO-3
	(b)	Briefly explain the following terms with relevant example of cryptography-Plain text, cypher text, encryption and decryption.	[5]	CLO-3
	(c)	Briefly explain the impact of digitization in the society.	[2]	CLO-3

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