

Daffodil International University

Department of Computer Science and Engineering Faculty of Science & Information Technology

Mid-Term Examination, Semester: Spring 2017

b) What are the limitations of a computer system?

Course Code: CSE-112 Course Title: Computer Fundamentals

Sections: All

Course Teachers: All

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Time: 1:30 Hours		Marks: 25
4	Answer any five questions	
1. a)	Which one manages the resources of a computer system? Describe it.	3 1
b)	What are the differences between data and information?	2
2, a)	Who is the inventor of "Difference Engine"? Draw the basic organization of the computer.	f 3
b)	Why computer is considered as a system?	2
(3, a)	Perform the follow. a conversions:	3
	7BD ₁₆ = (?) ₁₀ ii. 352 ₆ = (?) ₄	
b)	What are the differences between primary and secondary storage?	2
4 Co	enstruct the logic gate for the given boolean expressions:	2.5*2=5_
	a) $x.\overline{y.z} + xz + y.x + \overline{z}$	
	b) $\overline{A} \cdot B + \overline{C} + (\overline{A} \cdot P) \cdot (\overline{C} + D)$	
5 a)	Find out the corresponding boolean expression for the given circuit diagram:	3
	A C C C C C C C C C C C C C C C C C C C	
b)	Prove the following theorem by using Postulates: $X + X \cdot Y = X$	2
6. a)	Perform the following operations: i. $11100110 \div 110$ ii. 11011×1001	3