

EASTERN UNIVERSITY, SRILANKA DEPARTMENT OF MATHEMATICS

FIRST EXAMINATION IN SCIENCE -2015/2016

FIRST SEMESTER (Jul. / Aug, 2017)

CC 1.01 – FUNDAMENTALS OF COMPUTER SYSTEMS

Answer all questions	Time allowed: 01 hour
01.	AND
ζ1.	
A. Name the main components of a Central Processin	ng Unit (CPU) and briefly describe
their functions.	(15 Marks)
B. List the characteristics of a computer.	(10 Marks)
C. Compare and contrast about the third and fourth ge	nerations of computers. (15 Marks)
D. What are the various devices used to store data in a	computer? Give a classification of
storage devices.	(20 Marks)
E. Define the term Software. The computer softw	vare is classified into two broad
categories, explain each with suitable examples.	(15 Marks)
F. Write short notes of the following terms:	
a. RAM;	(10 Marks)
b. ROM;	. (10 Marks)
c. BIOS.	(05 Marks)

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	examp	les.		(20 Marks)
В.	Explai	n three categories of the wired transmission media.		(15 Marks)
C.	Explai	n the following terms:		
	a.	Wide Area Network (WAN);		
	ъ.	Bridge;		
	c.	Switch;		
	d.	Gateway.		(20 Marks)
D	. Conve	ert the following decimal numbers into Binary numbers (Show ap	prop	oriate steps):
	a.	(999)10;	1,	8
	b.	(077.89)10;	at	
	c.	(0.958)10.	\$	(15 Marks)
E	. Conv	ert the following numbers into Octal numbers (Show appropriate	e ste	ps):
	a.	(858)10;		*
	b.	(936.245)10;		
	c.	(FFF) ₁₆ .		(15 Marks)
F	. Conv	ert the following numbers into Hexadecimal numbers (Show app	prop	riate steps):
	a.	(878)10;		
7	b.	(757)8;	,,	
	c.	$(0.989)_{10}$.	2	(15 Marks
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A. Secondary memory can be classified into three categories. Explain each with suitable