CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC00101: SOFTWARE PROJECT MANAGEMENT

STREAMS: CERT (COMP SCI) YIS1

TIME: 2 HOURS

DAY/DATE:

INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, no reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.

SECTION A (ANSWER ALL QUESTIONS IN THIS SECTION)

Question one (30 marks)

a. List the 5 classifications of com	puters		(5 mks)
b. List 5 major components of a commercially available computer			er (5 mks)
c. As a computer science student, v	why do y	ou think studying the	fundamentals of PCs is
important to your future profession	(5 mks)		
d. Define the following terms:		-	
i. Motherboard in a PC			(2 mks)
ii. Device driver			(2 mks)
e. Explain three main types of system buses			[6 mks]
f. If			[5 marks]
0 (Off) or 1 (On)	=	1 Bit	
8 Bits	=	1 Byte	

Convert the following into Bytes:

1 Kilobyte	=
1 Megabyte	=
1 Terabyte	=
1 Petabyte	=
1 Exabytes	=

SECTION B (ANSWER ANY TWO QUESTIONS ONLY!! IN THIS SECTION)

Question two (20 marks)

a. EXPLAIN the functions of the Following Parts of a PC Motherboard	[10 mks]
-North bridge -BIOS socket -GPU Slot -PCI slots. -I/O ports	
b. Convert the following	
i. Octal Number: 12570 ₈ to Decimal Equivalent ii. Hexadecimal Number: 19FDE ₁₆ to Decimal Equivalent	(3 mks) (4 mks)

(3 mks)

Question Three (20 mks)

iii. Convert 6.18 to decimal number

a. Explain the functions of the following Computer hardware components	(16 mks)
-RAM:	
-GPU:	
-SDD:	
-Power Supply Unit:	
-Monitor:	
-Keyboard:	
-Scanner:	
-Plotter:	

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b. List and Explain any TWO Storage device management utilities	[4 mks]			
Question Four (20 mks)				
a. The main role of the CPU is to execute instructions. Describe four steps involve execution.	ved in instruction [8 marks]			
b. You are an ICT staff of an upcoming company and the management asks specification in order to procure the computers, explain five specifications recommend to be considered.	• •			
c. List Two-character coding schemes.	[2 marks]			
Question Five (20 mks)				
a. Describe five methods used in care and maintenance of computers.	[5 marks]			
b. Today's world is almost dependent on computers, discuss five computer applied modern society.	cations in our [10 marks]			
c. With appropriate Examples, differentiate off-the-Shelf software from proprieta	ary software. [5 marks]			
