

DATE: 26/2/2021			TIME: 2.00-4.00 PM		
INSTRUCTIONS Answer question ONE and any other TWO questions.					
a)	List	three characteristics of all computing devices.	(3 marks)		
b)	Outl	Dutline three major characteristics of the fifth generation of computers which makes it mo			
	supe	rior to the other generations.	(3 marks)		
c)	Outl	ine the role of operating system in a computer system	(3 marks)		
d) Computers have evolved over time. At conception users were very skeptical of t			ry skeptical of the technology		
	but c	but of late computers have been embraced in all sectors. Analyze five reasons why computers			
	have	been main streamed in all sectors.	(5 marks)		
e)	Diffe	erentiate between the following.	(10 marks)		
	i.	RAM and ROM memory			
	ii.	Analog and digital computers			
	iii.	Optic and Magnetic storage medium			
	iv.	HDD and SSD.			
	v.	USB and HDMI ports.			
f)	Discuss three benefits of computers realized in government systems offering se		tems offering services to the		
	citiz	ens	(3 marks)		

g)	Highlight the role of the following components in a computer system. (3 marks)		
	i. Arithmetic and Logic Unit		
	ii. Central processing unit.		
	iii. Mother Board		
QUE	ESTION TWO (20 MARKS)		
a)	Define a software.	(1 mark)	
b)	List three types of software.	(3 marks)	
c)	For the types you have listed above, enumerate two example of each	(6 marks)	
d)	Highlight the main differences in the first, second, third and fourth generation	n of computers.	
		(4 marks)	
e)	Discuss three areas where computerized robots are applied and the advantage	s realized there	
	of	(6 marks)	
QUE	CSTION THREE (20 MARKS)		
a)	Convert the following hexadecimal numbers into binary digits	(4 marks)	
	i. 92BC		
	ii. ADBC		
b)	Discuss two types of application softwares.	(4 marks)	
c)	Computers have evolved over time. At conception users were very skeptical of		
	but of late computers have been embraced in all sectors. Analyze five reasons w	why it has taken	
	long for computers to penetrate fully in various sectors have been main streame	ed in all sectors.	
		(10 marks)	
QUE	CSTION FOUR (20 MARKS)		
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Define an open-source software. a)

- (2 marks) b) Distinguish between Proprietary Software vs Open Source Software. (4 marks) c)
- d) List three methods of computer software update (3 marks)
- Show the binary and hexadecimal equivalents of the following decimal numbers. (3 marks) e)

Decimal	Hexadecimal	Binary
1		
8		
15		

Describe a free software

Discuss six negative impacts of using computers, showing remedies to mitigate the impact. f)

(6 marks)

(2 marks)

QUESTION FIVE (20 MARKS)

- a) Getaway consult ltd was designing a mobile application to determine the acceptance of a new product introduced in the market. Consumers were to indicate the level of product acceptance by pressing a number between 1 and 10. They created a rating scale which had the following ranges; 1-2 was considered a "failure", 3-4 was a "trial",5-6" was "fair attempt", 7-8 was "success" and the rest were excellent.
 - i. Create an algorithm to assist the company design the program (5 marks)
 - ii. Generate a flowchart for the program base on the algorithm in (a) above. (5 marks)
- b) Discuss the four levels of programming languages (4 marks)
- During c ovid-19 occasioned pandemic, physical movements have been limited. Discuss six ways in which ICT has come in to ensure that the economy runs and people's livelihoods are sustained.
 (6 marks)