Computer Applications



EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

ENGINEERING SECTION

END-TERM EXAMINATION

SUBJECT: COMPUTER APPLICATIONS

STREAM: Y2 (TEP A\$E)

Duration: 3 Hrs

DAY/DATE:

: XX/04/2016

TIME: XXXXXXXXXXXXXX

Instructions to Candidates:

- 1. This paper consists of **two** (2) printed pages.
- 2. Attempt All Questions

Q1.			
	a)	Distinguish between a data bus and an address bus in a computer system.	(2 Marks)
	b)	Distinguish between volatile and non-volatile memory	(2 Marks)
(c)	What are the three main functions of an assembler in assembly language programming	
	d)	Give four advantages of high level language programming over assembly language	(3 Marks)
	u)	programming?	(4 Marks)
(e)	Give three advantages of assembly language programming over machine language pro	
	,		(3 Marks)
Q2.			
:	a) Give four reasons why the flash disk is replacing the floppy disk as a portable storage device?		
1	L \	What is each a man and have is it different from minor man 2	(4 Marks)
	b) c)	What is cache memory and how is it different from primary memory? Give three advantages that have resulted in the wide spread use of a universal serial bu	(4 Marks)
	()	Give three advantages that have resulted in the wide spread use of a universal serial of	(2 Marks)
Q3.			(
	a)	Draw a block diagram to illustrate the basic organization of a Central Processing Unit	and
		explain the functions of the various components.	(4 Marks)
	-	With reference to a CPU, What does MIPS means?	(1 Marks)
	c)	RS-232 is a standard that applies to which type of computer communication?	(1 Marks)
Q4.	a) A computer memory package is described as DDR-2; SO-DIMM; SD-RAM. Explain "SD-RAM"		
•	<i>a)</i>	in as far as the functionality of the memory module is concerned.	(3 Marks)
1	b)	What is "DDR 1" as refers to computer memory	(2 Marks)
(c)	Distinguish between EPROM and EEPROM as applies to computers memory	(3 Marks)
(d)	Describe four essential characteristics of DRAM as applies to computers memory	
~ -			(4 Marks)
Q5.	-)	Distributes and the instantian LODU	(2) M_{2} $(1-z)$
i	a)	 Pick the correct choice for the Pentium I CPU. a) 16 bit ALU, 16 bit Bus; b) 32 bit ALU, 16 bit Bus; c) 8 bit ALU 	(2 Marks)
		a) 16 bit ALU, 16 bit Bus; b) 32 bit ALU, 16 bit Bus; c) 8 bit ALU Bus; d) 32 bit ALU 64 bit Bus; e) 32 bit ALU, 32 bit Bus	, 52 on
		Est action school of the	
	b)	Pick the correct choice for the highest binary number that can be referred to on a three	
		parallel switch block? a) 7; b) 6; c) F; d) 1; e) None of the a	(1 Marks)
(c)	Which of the following is NOT a type of motherboard expansion slot?	(1 Marks)
	- /	a) ISA; b) PCI; c) AGP; d) ATX	(
	1 \		(1 M. 1)
(d)	Pick the correct choice for which of the following is NOT a type of RAM?a) SIMM;b) DIMM;c) ROM;d) SLIPP	(1 Marks)
		a_j Shvirvi, b_j Dhvirvi, c_j KOIVI, u_j SLIFF	
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