EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

FINAL EXAM

AIRLAW, RULES & REGULATIONS

SUBJECT: AIR TRAFFIC MANAGEMENT

STREAM: Flight Dispatch   **Duration: 2Hrs**

DATE: 27/10/2015   **TIME:8.30AM-10.30AM**

INSTRUCTION TO CANDIDATES

1. *Answer the questions as per the instructions given*
2. *Answer **ALL** the Questions in both sections*

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:** XXXXXXXXXXXX

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?

     (3 Marks)
  d) Give four advantages of high level language programming over assembly language programming?
     (4 Marks)

e) Give three advantages of assembly language programming over machine language programming

(3 Marks)

Q2.

a) Give **four** reasons why the flash disk is replacing the floppy disk as a portable storage device?
(4 Marks)

b) What is cache memory and how is it different from primary memory?
(4 Marks)

c) Give three advantages that have resulted in the wide spread use of a universal serial bus?

(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)

b) 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" in as far as the functionality of the memory module is concerned.   (3 Marks)

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.

a) Pick the correct choice for the Pentium I CPU.
(2 Marks)
a) 16 bit ALU, 16 bit Bus; **b)** 32 bit ALU, 16 bit Bus; **c)** 8 bit ALU, 32 bit Bus; **d)** 32 bit ALU 64 bit Bus; **e)** 32 bit ALU, 32 bit Bus

b) Pick the correct choice for the highest binary number that can be referred to on a three position parallel switch block?
(1 Marks)
a) 7; **b)** 6; **c)** F; **d)** 1; **e)** None of the above

c) Which of the following is NOT a type of motherboard expansion slot?
   (1 Marks)
   a) ISA;   **b)** PCI;   **c)** AGP;   **d)** ATX

d) Pick the correct choice for which of the following is NOT a type of RAM?
   (1 Marks)
   a) SIMM;   **b)** DIMM;   **c)** ROM;   **d)** SLIPP

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