IS 158: COMPUTER HARDWARE & SYSTEM MAINTANANCE (2 UNITS)

TIME 1000-1100

DATE: 02nd June, 2017

Instructions

i. Attempt all questions
ii. All marks add up to 30
iii. Ensure your work is readable

Question one:

a) Give the most correct answer out of alternatives given   (2.5 marks)

i. Which of the following terms are measures of CPU speed?
   a. Megahertz and gigahertz
   b. Megabytes and gigabytes
   c. Megahertz and gigabytes
   d. Frontside bus, backside bus

ii. What do you need to install on top of your CPU to keep it from overheating?
   a. RAM
   b. Heat sink assembly
   c. Thermal dissipater
   d. CPU disperser

iii. How should you handle RAM?
   a. Touch only the gold contacts at the bottom of the stick.
   b. Touch only the edges, never the gold contacts.
   c. You should only use special tongs when handling RAM.
   d. It is unsafe to ever handle RAM.

iv. What is true about a double-sided DIMM?
   a. It has memory chips on the front and back.
   b. It can be installed forward or backwards.
   c. It is twice as fast as a single-sided DIMM.
   d. It has half the capacity of a quad-sided DIMM

v. Which of the following is/are not part of the CPU?
   a. Control unit
   b. ALU
   c. Registers
   d. Primary Storage

i.	ii.	iii.	iv.	v.
A	C	B	C	D

b) Explain the meaning and purpose of the following activities/ devices on PC.   (5 marks)

i. Over clocking

ii. Throttling

iii. Multi-core processing
   Form of processing whereby the work is divided to several processors which work simultaneously to achieve faster processing speeds.

iv. Cache
   Type of memory which too acts as temporary storage for ALU calculations and program data.

v. RAM
   Non-volatile primary storage which loses its contents when there is no power running through it.

c) What is preventive maintenance? Give two advantages of preventive maintenance   (3 marks)