UNIVERSITY OF DAR ES SALAAM-COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES

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

TIME 1000-1100   DATE: 28TH APRIL, 2017

Instructions

  i.   Attempt all questions
  ii.   All marks add up to 40
  iii. Be precise
  iv.   Ensure your work is readable

Question one:
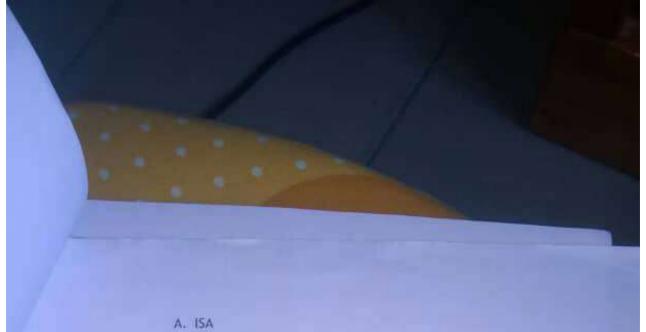 a) What is the purpose of the following items that are located on mother board?   (3 marks)
     i.   System bus
     ii.   Expansion slots
     iii. Chipset
  b) Differentiate the following terms   (4 marks)
     i.   VGA from HDMI
     ii.   Von Neumann architecture from AMD architecture(diagrammatic explanation will add up marks)

Question two
  a) What is the function of the following interface cards; RAID adapter, wireless NIC and SCI adapter   (6 marks)
  b) Explain in detail the three technologies commonly used in display subsystem. Describe five factors that determine monitor resolution.   (6 marks)
  c) With examples explain three technologies for storage devices. (6 marks)
  d) Give the most correct answer out of alternatives given   (4 marks)
     i.   Which of the following interface types is not commonly used to connect a mouse to PC?
           A. USB
           B. PS/2
           C. IrDA
           D. Parallel.
     ii.   Externally speaker systems commonly connect to a PC through a single jack that conforms to what PC standard?
           A. PCMCIA
           B. PC99
           C. IEE 1394
           D. There is no standard for audio connections on a PC.
     iii. What expansion bus has become the de facto standard for modern PC systems?

A. ISA
B. EISA
C. PCI
D. AGP

iv. To add external wireless network interface card to a notebook PC, what card standard is commonly used?

A. PCI
B. PC card
C. USB
D. FireWire

Question three

a) Explain the function of the following tools and give at least three examples for each (6 marks)

i. Cleaning tools
ii. Hand tools
iii. Diagnostics tools
iv. Disk management tools

b) Differentiate BIOS from CMOS. Explain the three forms of BIOS. (3 marks)

c) Give reasons that will force you to change BIOS settings. (2 marks)