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University Examinations 2013/2014

STAGE I, EXAMINATION FOR DIPLOMA/CERTIFICATE IN INFORMATION TECHNOLOGY

DIT 0101: INTRODUCTION TO COMPUTER

DATE: APRIL 2014   **TIME: 1½ HOURS**

INSTRUCTIONS: *Answer questions **one** and any other **two** questions*

QUESTION ONE - (30 MARKS)

a) Explain the following terms as used in booting:-
    (i) BIOS   (2 marks)
    (ii) POST   (2 marks)

b) Differentiate between:
    (i) Backspace and spacebar keys   (2 marks)
    (ii) Disk formatting and disk defragmentation   (2 marks)

c) Identify programming language used in the following generations.
    (i) First generations   (1 mark)
    (ii) Second generations   (1mark)

d) (i) List four types of system software   (2 marks)
    (ii) Explain the following functions of the operating system
    (i) Job scheduling   (2 marks)
    (ii) Interrupt handling   (2 marks)

e)   Explain the functions of the following central processing unit components
    (i)   ALU   (2marks)
    (ii)   Control Unit   (2 marks)
    (iii)   Primary Storage   (2 marks)

f) Define the following terms with reference to computer crime.
    (i)   Cracking   (1mark)

    (ii)   Hacking   (1 mark)

g) Briefly explain any three application areas of ICT.   (3 marks)

h) List any two types of ;
    i.   Optical disks   (1 mark)
    ii.   Magnetic disks   (1 mark)
    iii.   Solid state media   (1 mark)

QUESTION TWO – (15 MARKS)

a) Artificial intelligence is out to develop devices that emulate a human being in all aspects as applied in expert systems. Explain three areas of expert systems   (6 marks)

b) Distinguish between job replacement and job displacement.   (2 marks)

c) List any two soft copy output devices.   (2 marks)

d) Differentiate between RAM and ROM.   (2 marks)

e) Give the importance of having the following in computer rooms:

    i.   Standard furniture   (1 mark)
    ii.   UPS   (1 mark)
    iii.   Antiglare screen/monitor   (1 mark)

QUESTION THREE – (15 MARKS)

a) Describe how each of the following printers work.
    i.   Thermal printer   (2 marks)
    ii.   Electrostatic printer   (2 marks)
    iii.   Laser printer   (2 marks)

b) Continuous use of computers has adverse health effects. State five ways of averting these effects.   (5 marks)

c) Write alternative names of the following types of software.
    i.   Bespoke software   (1 mark)
    ii.   Vendor-off-the-shelf software   (1 mark)

d) Define the term computer register.   (2 marks)

QUESTION FOUR – (15 MARKS)

a) Distinguish between impact and non impact printers citing one example in each.

(2 marks)

b) Differentiate between freeware and open source as end-user license softwares.

(2 marks)

c) Explain the uses of the following key on the keyboard.
   (i) Tab key (1 mark)
   (ii) Insert key (1 mark)
   (iii)Backspace key (1 mark)
   (iv)Return key/Enter key (1 mark)

d) Explain the meaning of the following terms as used with operating system.
   i. Single user (2 marks)
   ii. Multi tasking (2 marks)

e) List three components of a computer system. (3 marks)