



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations for 2013/2014

DEPARTMENT OF COMPUTING AND APPLIED SCIENCE

End of Term Examination for Diploma in Information and Communication Technology Module I

Introduction to ICT & Ethics

Date:

Time: 2 Hours

Instructions:

Answer all questions

Question One

Define the following terms in respect to ICT

(5 marks)

- Hardware
- Software
- Peripherals
- Telecommuting
- Videoconferencing

Question Two

- Differentiate between direct and sequential access in respect to secondary storage using an example in each case. (6 marks)
- Explain **five** reasons why many computer users prefer to use compact disks instead of flash disks. (5 marks)

Question Three

Juma who is a student in MUC needs to buy a computer for personal use and has approached you for advice. Explain to him **five** factors which will determine the cost of the computer (10 marks)

Question Four

Explain each of the following computer educational programs (6 marks)

- a) Computer Aided instruction
- b) Computer Aided Learning
- c) Computer Based Simulation

Question Five

Using a diagram, clearly illustrate the flow of data and instructions in a digital computer. (10 marks)

Question Six

Identify **three** ways on how computers are classified giving an examples in each case (6 marks)

Question Seven

- a) Explain any **five** benefits of using computers and **three** limitations associated with their use (8 marks)
- b) Identify **four** reasons why floppy disks are no longer used as storage medium (4 marks)
- c) Using a diagram, clearly differentiate between tracks, sectors, and block as used in storage (6marks)

Question Eight

Classify the following devices as either input or output (9 marks)

Scanner, Digital camera, Barcode reader, Monitor, Speaker, Microphone, Keyboard, Printer, Joystick

Question Nine

- a) Name the technology used in the 1st 2nd 3rd and 4th generation computers (4 marks)
- b) Highlight two characteristics of each of the computer generations in (a) above (8 marks)
- c) Explain **three** reasons why many international firms use mainframe computers (3 marks)

Question Ten

Explain **five** factors to consider when selecting hardware (10 marks)