



Machakos University College

(A Constituent College of Kenyatta University)

University Examinations 2014/2015

**SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY**

EXAMINATION FOR DIPLOMA ONE IN EDUCATION

INFORMATION COMMUNICATION TECHNOLOGY

Date: 15/12/2014

Time: 11:30-1:00 AM

Instructions

Answer question ONE and any other TWO questions

Don't write on this question paper

Question One

- Define the term *information Communication Technology*. (2 marks)
- Differentiate between OCR and MICR as used in computers. (4 marks)
- Outline **four** reasons why a mobile phone is regarded as a computer (4 marks)
- List any **four** input/output devices used on an Automated Teller Machine. (4 marks)
- You have been requested to advice your manager on different computer Software, briefly explain, giving examples, the **two** classes of software. (4 marks)
- Figure 1 show typical features used in word processing programs. State the function of each of the features labeled (i) and (ii). (4 marks)

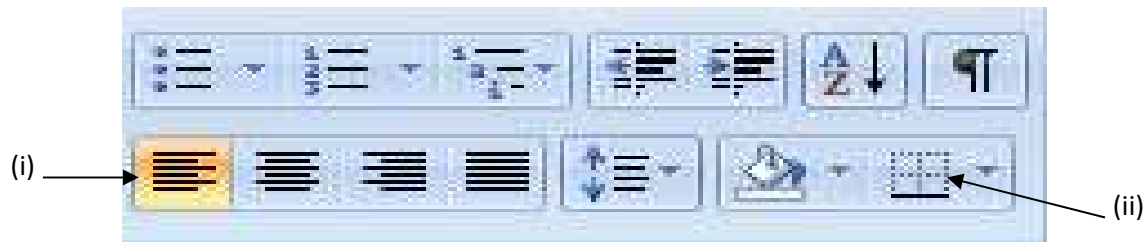


Figure 1

- Differentiate the following terms in relation to computers:
 - Soft copy and Hard copy
 - Save and Save As

- iii. Move and copy (6 marks)
- h) Outline **four** uses of the internet. (2 marks)

Question Two

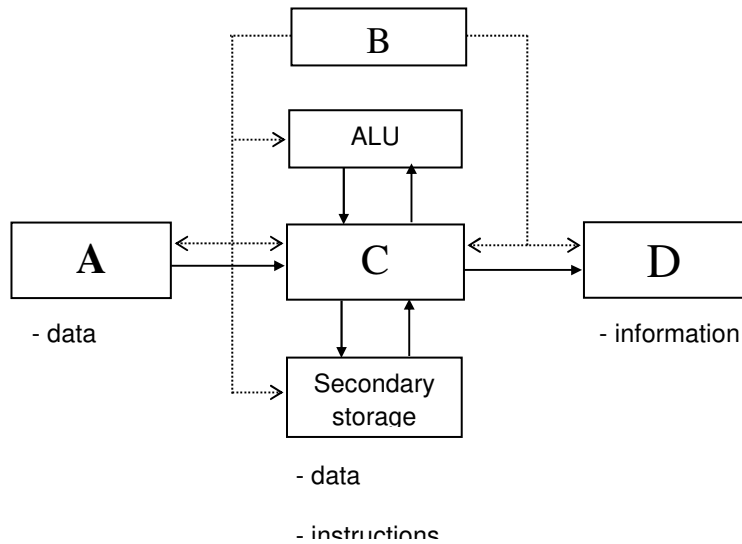
- a) In word processing, *indent* means moving the text away from the margin. Describe **two** types of indents. (4 marks)
- b) Assuming a window based environment, outline **two** ways that could be used to load a word processing program. (4 marks)
- c) Differentiate between the following terms as used in word processing:
 - i. Headers and Footers
 - ii. Landscape and portrait orientation (4 marks)
- d) The table below was prepared by a word processing program; identify four formatting features used to on it. (4 marks)

BAOBI PARK					
GAP ANALYSIS PROGRAMME					
30th and 31st March 2014					
DAY	8:30 – 10:00		10:30 – 12:00		2:00 -4:00
Friday	Presentation	HB	Group Work	HB	Group Work
Saturday	Plenary		Group Work		Plenary

- e) A student from MUC wants to create a folder on the desktop to store the above table, state the procedure he/she would use. (4 Marks)

Question Three

- a) Mutiso is a businessman from Kitui town and intends to automate his business. Describe the factors he would consider before purchasing the computers to use. (6 Marks)
- b) Outline **two** advantages of laptops as compared to desktop computers. (2 marks)
- c) Below is a block diagram of a digital computer system. Describe the function of the parts labeled A, B, C, and D. (8 marks)



—————> Flow of data

.....> Flow of control

- d) The computer has a primary memory which it uses while processing. Justify the need for secondary storage. (4 marks)

Question Four

- a) Explain each of the following terms as used in computer software:
- i. Compatibility;
 - ii. Portability. (4 marks)
- b) An export company has decided to computerize their operations; they have decided to buy computer packages instead of developing their programs. Describe **three** benefits they are going to realize from their decision. (6 Marks)
- c) Imagine you are a computer consultant, a client approaches you to advise him/her on the type of operating system to use on his/her computer:
- i. Describe the term *operating system*. (2 marks)
 - ii. Describe **two** types of operating system according to the number of users it supports. (4 marks)
- d) Outline **four** functionalities/operations of a mouse. (4 marks)

Question Five

- a) Describe **two** types of computer networks based on geographical coverage. (4 marks)
- b) With the aid of a diagram, explain the *star* computer network topology. (4 marks)
- c) Describe the counter measures to the following computer crimes
- i. software piracy;
 - ii. computer virus;
 - iii. Unauthorized access. (6 marks)

d) Describe the following basic principles of data/information systems in relation to computer security;

- i. Confidentiality
- ii. Integrity
- iii. Authenticity

(6 marks)