



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY
FIRST YEAR FIRST SEMESTER EXAMINATION FOR DIPLOMA OF
ELECTRICAL AND ELECTRONICS ENGINEERING

INTRODUCTION TO COMPUTERS

DATE: 1/8/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer question **ONE** and **Any other Two** questions

QUESTION ONE (COMPULSORY) (30 marks)

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

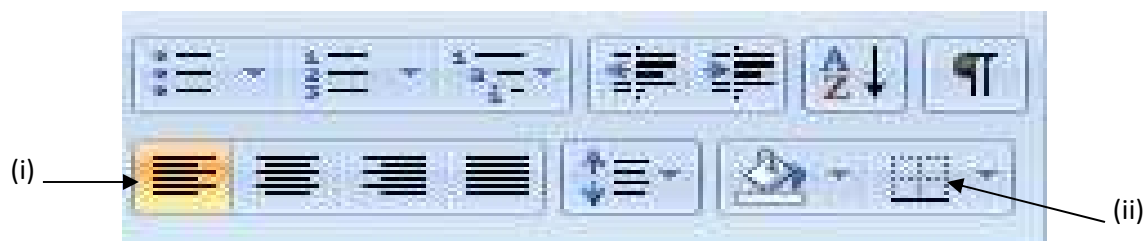


Figure 1

- g) Differentiate the following terms in relation to computers:
- Soft copy and Hard copy
 - Save and Save As
 - Move and copy (6 marks)
- h) Outline **four** uses of the internet. (2 marks)

QUESTION TWO (20 MARKS)

- 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:
- Headers and Footers
 - 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)

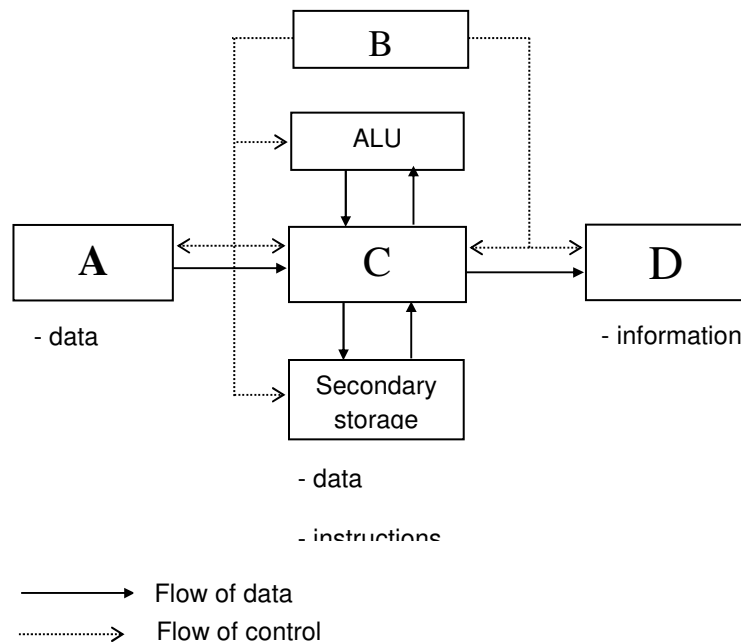
BAOBI PARK GAP ANALYSIS PROGRAMME 30th and 31st March 2014					
DAY	8:30 – 10:00	HB	10:30 – 12:00	HB	2:00 -4:00
Friday	Presentation		Group Work		Group Work
Saturday	Plenary		Group Work		Plenary

- 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 (20 MARKS)

- 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)



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

QUESTION FOUR (20 marks)

- a) Explain each of the following terms as used in computer software:
- Compatibility;
 - 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:
- Describe the term *operating system*. (2 marks)
 - 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 (20 marks)

- a) Describe the term *computer/information security*. (2 marks)
- b) Describe the following basic principles of data/information systems in relation to computer security;
- i. Confidentiality
 - ii. Availability
 - iii. Integrity
 - iv. Authenticity (8 marks)
- c) Describe the counter measures to the following computer crimes
- i. software piracy;
 - ii. Unauthorized access. (4 marks)
- d) Differentiate the following pair of terms in relation to computer security
- i. Risk and Vulnerability
 - ii. Threat and Attack
 - iii. Hoax and Worm
 - iv. Passive and Active attack (6 marks)