



MACHAKOS UNIVERSITY

University Examinations for 2017/2018

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DIPLOMA OF

EDUCATION

UCU 0101: INTRODUCTION TO COMPUTERS

DATE: 4/12/2017

TIME: 2.00-4.00 PM

Instructions:

Answer question ONE and any other TWO questions

Don't write on this question paper

QUESTION ONE

- 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)
- Explain **three** benefits that the Education industry derives from ICT technologies. (6 Marks)
- You have been requested to advise 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)

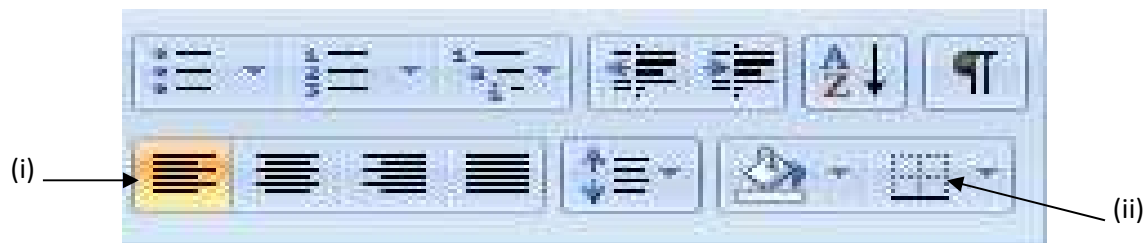


Figure 1

- Differentiate the following terms in relation to computers:

- i. Soft copy and Hard copy
 - ii. Save and Save As
 - iii. Move and copy (6 marks)
- g) 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) List any **four** input/output devices used on an Automated Teller Machine. (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)

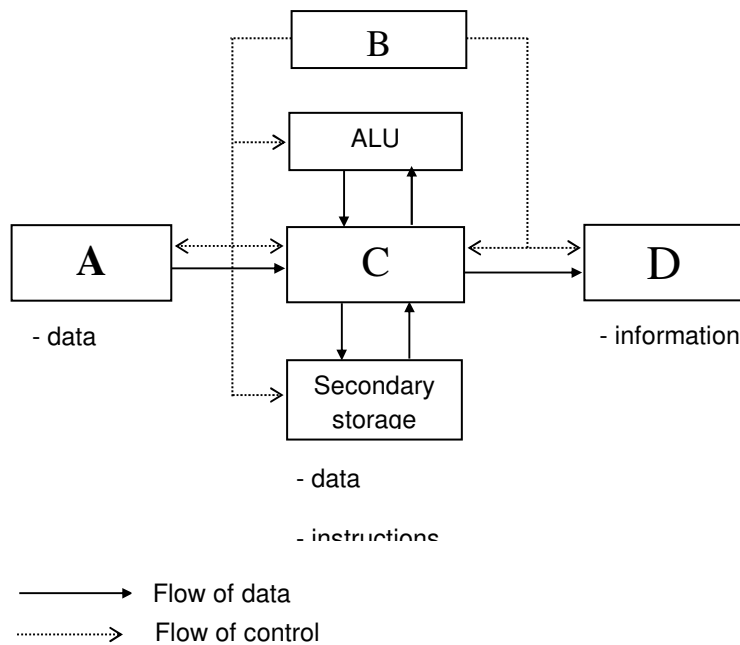
QUESTION THREE

- a) 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 FOUR

- 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 FIVE

- 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)