

W1-2-60-1-6

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2017/2018**

**YEAR I SEMESTER II EXAMINATION FOR THE DIPLOMA IN MASS COMMUNICATION AND DIPLOMA IN PUBLIC RELATIONS**

**HDC 0104: INTRODUCTION TO COMPUTER APPLICATIONS**

**DATE: AUGUST 2018 TIME: 1 ½ HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE (20 MARKS)**

1. Giving suitable examples, distinguish impact and non-impact printers. [4 marks]
2. What are the FOUR main desirable features of a good operating system? [4 marks]
3. Explain the following terms in relation to computer usage;
4. Computer system
5. Data
6. Information
7. Expert system [4 marks]
8. Using appropriate examples, describe input and output devices. [6 marks]
9. Distinguish between a cache memory and a virtual memory. [2 marks]

**QUESTION TWO (20 MARKS)**

1. The bus sub system consists of THREE main parts. Name and explain the parts. [9 marks]
2. Explain any SIX different types of computer registers. [6 marks]
3. Using suitable examples, discuss the TWO fundamental categories of Computer Software. [5 marks]

**QUESTION THREE (20 MARKS)**

1. Discuss the following main features of storage devices;
2. Volatility
3. Accessibility
4. Mutability
5. Addressability [8 marks]
6. What are the characteristics of fourth and fifth computer generations? [6 marks]
7. Explain the following forms of networks;

LAN; WAN and MAN [6 marks]

**QUESTION FOUR (20 MARKS)**

1. Explain any FOUR components of a communication network. [8 marks]
2. Discuss any THREE characteristics of computers. [6 marks]
3. Explain any FOUR factors to be considered in choosing an output media. [6 marks]

**QUESTION FIVE (20 MARKS)**

1. Explain the purpose of EACH of the following elements of a Computer System;

Accumulator/register

ALU

Control Unit

Data Bus

RAM

ROM [14 marks]

1. Explain any THREE types of computer Operating Systems. [6 marks]