



MACHAKOS UNIVERSITY

University Examinations for 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN EDUCATION

UCU 010: INTRODUCTION TO INFORMATION TECHNOLOGY

DATE: 9/5/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS

Answer **question ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a)
 - i Define the term file as used in computers and provide two examples. (4 marks)
 - ii Outline three main functions of an operating system in the computer (3 marks)
 - iii List two examples of operating system software (2 marks)
 - v Assuming you want to print your document, which menu do you choose for 'print preview'? (1 mark)
- b)
 - i Explain the term *data* as used in computers? (2 marks)
 - ii Operating systems typically provide each process with a virtual address space. Explain (3 marks)
- c)
 - i Name and explain briefly three main types of computers. (6 marks)
 - ii How is access control managed in Windows NT? (5 marks)
 - iii Differentiate between System Software and Application Software? (4 marks)

QUESTION TWO (20 MARKS)

- a) i Convert this binary number 101011_2 into decimal number. (3 marks)
- ii Convert this decimal number 125_{10} into binary number. (3 marks)
- b) i What is the meaning of the abbreviation FIFO? (3 marks)
- ii State and explain three types of internet protocol (6 marks)
- iii) Explain what we mean by the word 'Operating System' and give four examples of the same. (5 marks)

QUESTION THREE (20 MARKS)

- a) i Which binary number comes right after the binary number 101001 ? (3 marks)
- ii Name and explain the main functions of the following;
 - CPU (2 marks)
 - ALU (2 marks)
 - ROM (2 marks)
 - RAM (2 marks)
- iii How many bits is a kilobyte? (2 marks)
- b) i Describe what you understand by the term menu bar in MS Word. (2 marks)
- ii Computers have evolved over a time since the first computer was manufactured. How many generations of computers have been encountered till today? Give a brief history of computer evolution. (5 marks)

QUESTION FOUR (20 MARKS)

- a) i Name and describe the main functions of a computer. (5 marks)
- ii List three types of system software and Application Software. (6 marks)
- iii Explain the meaning of the word application software in computers. (2 marks)
- b) Give four examples of output devices. (4 marks)
- c) Define the following words:
 - i. Computer
 - ii. Hardware
 - iii. Monitor (3 marks)

QUESTION FIVE (20 MARKS)

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| a) | i | List and explain four parts of MS Word screen. | (8 marks) |
| | ii | What are the main characteristics of a computer | (4 marks) |
| b) | | Explain the meaning of a computer virus and give two examples? | (3 marks) |
| c) | | Name and explain what the Future Holds for Computers in the society | (5 marks) |