



MACHAKOS UNIVERSITY

University Examinations 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY
FIRST YEAR FIRST SEMESTER EXAMINATION FOR
CERTIFICATE IN INFORMATION TECHNOLOGY
INTRODUCTION TO INFORMATION COMMUNICATION TECHNOLOGY

Date: /12/2021

Time: 3 HOURS

INSTRUCTIONS

Answer question one in section A and any four questions in section B

SECTION A

QUESTION ONE (32 MARKS)

- a) Define the term the following terms;
 - i. Information Communication Technology. (2 marks)
 - ii. Computer system. (2 marks)
 - iii. Operating system. (1 mark)
- b) Describe three ways in which computers are classified. (6 marks)
- c) Explain three applications of computers in the engineering industry. (6 marks)
- d) Identify three examples of application packages. (3 marks)
- e) Distinguish primary memory from secondary memory (4 marks)
- f) Explain how the following keyboard keys are used. (2 marks)
 - i. Backspace
 - ii. Tab
- g) Describe two mouse operations. (2 marks)
- h) Citing two examples, explain the term computer peripherals. (4 marks)

SECTION B

QUESTION ONE (17 MARKS)

- a) State four factors to consider when acquiring computer software (4 marks)
- b) Identify four components of a window. (3 marks)
- c) Differentiate between the following pairs of terms as used in ICT.
 - i. Data and information (2 marks)
 - ii. Application software and System software (2 marks)
 - iii. ALU and control unit (2 marks)
- d) Explain four ways of upholding data security in an organization's computer center. (4 marks)

QUESTION TWO (17 MARKS)

- a) Define the following terms;
 - i. liveware (1 marks)
 - ii. data processing. (2 marks)
- b) Differentiate between the following pairs of terms as used in computers. (8 marks)
 - i. Soft copy and Hard copy
 - ii. Save and Save As
 - iii. Move and copy
 - iv. Cold boot and warm boot
- c) Describe the following types of computers (6 marks)
 - i. Mainframe computers
 - ii. Minicomputers
 - iii. Microcomputers

QUESTION THREE (17 MARKS)

- a) Identify three mouse techniques/skills. (3 marks)
- b) Define the term Word Processing software. (2 marks)
- c) State two word processing software found in the market today. (2 marks)
- d) Describe two word processing application areas. (2 marks)
- e) Explain four advantages of computerization. (4 marks)
- f) Describe two safety precautions to be observed in a computer laboratory. (4 marks)

QUESTION FOUR (17 MARKS)

- a) Identify two circumstances that would lead to warm booting. (2 marks)
- b) Outline three factors to consider while purchasing an operating system. (3 marks)
- c) Explain two challenges associated with widespread use of ICT in society. (4 marks)
- d) Describe the features of the first generations computers. (4 marks)
- e) Monica wants to purchase a computer for her personal use. State four reasons, why you would encourage her to buy a laptop. (4 marks)

QUESTION FIVE (17 MARKS)

- a) Define the term, electronic mail (e-mail). (1 mark)
- b) Identify two application areas where super computers can be used. (2 marks)
- c) Describe two threats to computer systems. (2 marks)
- d) Differentiate between the following ICT terms.
 - i. optical disk and magnetic disk (2 marks)
 - ii. analogue computer and digital computer (2 marks)
 - iii. hard disk and compact disk (2 marks)
- e) You have been requested to advice your manager on different types of computer software. Explain, giving examples, the two broad classes of software. (4 marks)
- f) Eric is an architect and would like to procure a plotter for his architectural and computer aided design works. State two factors he should consider. (2 marks)