MACHAKOS UNIVERSITY

University Examinations for 2021/2022

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

FIRST YEAR SPECIAL / SUPPLEMENTARY EXAMINATIONS FOR

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

SIT 180: COMPUTERS AND SOCIETY

DATE: 25/8/2022   **TIME: 8.30-10.30 AM**

INSTRUCTIONS:

This Paper consists of FIVE questions

Answer question ONE and any other TWO questions in this paper

QUESTION ONE (30 MARKS) (COMPULSORY)

a) Define the following terms as used in computer science.   (4 marks)

  i.   Data.

  ii.   Programs.

  iii.   Data processing.

  iv.   Information

b) Explain THREE distinguishing characteristics of a computer   (6 marks)

c) Describe THREE computer generations   (6 marks)

d) Distinguishing between Computer Crime and Computer Abuse   (4 marks)

e) Explain the importance of Ethics and law in computing   (6 marks)

f) Explain four types of Intellectual Property Protection   (4 marks)

QUESTION TWO (20 MARKS)

a) Explain FIVE impacts of computers in the contemporary society.   (10 marks)

b) Explain how the growth of ICT industry in Kenya complements vision 2030   (10 marks)

QUESTION THREE (20 MARKS)

There are attempts by institution of higher learning in Kenya to establish e-library for research.

a)   Explain why the attempt has not succeeded in most colleges in Kenya.   (10 marks)

b)   Justify why the e-library is a noble idea to academic growth.   (10 marks)

QUESTION FOUR (20 MARKS)

a)   Explain FIVE ethical issues in computer usage   (10 marks)

b)   Using an example in each case, explain the methods used by criminals to obtain personal data   (10 marks)

QUESTION FIVE (20 MARKS)

a)   Contrast Ethics and Law as used in computing.   (10 marks)

b)   Explain exhaustively the importance of computers in the following areas: (10 marks)

   i.   Banks
   ii.   Hospitals.
   iii.   Education
   iv.   Research.
   v.   Communication industry.