



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

SIT160: INFORMATION SYSTEMS

DATE: 8/12/2020

TIME: 2:00 - 4:00 PM

INSTRUCTIONS

Answer question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) State four components of an Information System. (4 marks)
- b) Discuss three information systems that can be used in a typical organization. (6 marks)
- c) State four examples of IT related projects (4 marks)
- d) Discuss three data collection methods related to IS development. (6 marks)
- e) Giant technology vendors like Microsoft and IBM have greatly contributed to developing IS platforms and applications. Discuss three ethical issues they probably handle in the process. (6 marks)
- f) State four functions of a database system in an organization. (4 marks)

QUESTION TWO (20 MARKS)

- a) Discuss three roles of people in Information Systems (6 marks)
- b) State four components of information system hardware. (4 marks)
- c) You have been selected to be part of the team that is assigned the task of developing an IS for Machakos University. Justify why the university would need an IS for their operations. (10 marks)

QUESTION THREE (20 MARKS)

- a) State four process models that can be used for IS development (4 marks)
- b) Explain three challenges of project management (6 marks)
- c) MachaTech company has been tasked with developing an IS. Discuss the process they are likely to use to develop the information system. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the Impact of Information Systems in an organization. (10 marks)
- b) State four security issues of information systems (4 marks)
- c) Explain three methods that can be used to secure information systems. (6 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss five types of information systems that can be used in a typical organization. (10 marks)
- b) Discuss five negative social impacts of internet on the society. (10 marks)