



KENYATTA UNIVERSITY

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

(INFORMATION TECHNOLOGY)

SIT 107: INTRODUCTION TO INFORMATION SYSTEMS

2ND SEMESTER 2023/2024

TIME: 2HOURS

INSTRUCTIONS:

SECTION A: COMPULSORY QUESTION (30 MARKS)

QUESTION ONE

a) Define the following terms as used in information systems [4 marks]

- (i) Architecture Tradeoff Analysis
- (ii) system trade-offs

b) What is an information system and what activities does it perform? [4marks]

c) Explain 3 reasons why information systems is so important for business today? [6marks]

d) Explain how you would solve the following conflicts between IT and business stakeholders [4marks]

- (i) Alignment issues
- (ii) Trust erosion

e) Briefly describe the following types of information systems in an organization [6marks]

- i) Knowledge Work System (KWS)
- ii) Management Information System (MIS)

f) Describe how system development life cycle SDLC provide an environment that is conducive to successful systems development [6marks]

QUESTION TWO

- a) Differentiate between Information systems (IS) and information technology (IT) **[4marks]**
- b) Important issues must be considered by the systems analyst after a system has been developed and before the installation/implementation. Draft a memo to your manager detailing steps you would take to ensure a professional installation of a completely new system. **[10 mark]**
- c) Identify three different ways of installing the system including one different advantage and disadvantage of each and explaining typically when each is used. **[6 marks]**

QUESTION THREE

- a) Describe FIVE services associated with information technology infrastructure **[10marks]**
- b) There are many risks and threats which need to be considered when developing and supporting computer systems. Describe how you would protect the security of the following **[10marks]**

ii) Hardware

iii) Network

QUESTION FOUR

- a) A large power tool company has emerged with several of its small competitions; it requires new information systems. Show how you would control and manage your team in carrying out this project and what management techniques you would use **[14marks]**
- b) Briefly describe the impact of information systems in organization in the following dimensions **[6marks]**
 - (i) organization structure
 - (ii) Human resources

QUESTION FIVE

a) i) Distinguish between software development methodology and evolutionary development

[4 marks]

(ii) Explain the two types of evolutionary development.

[5marks]

(b)i) With illustrations describe the activities, principal stages of the water fall model. [9marks]

ii) Explain the main purpose of the implementation phase in the SDLC

[2 marks]