

MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A constituent college of Jomo Kenyatta University of Agriculture and Technology)

FACULTY OF ENGINEERING AND COMPUTING

CIT2K11S

END OF SEMESTER EXAMINATION

EIT 1121

INFORMATION PROCESSING

QUESTION 1

- a) Define data processing [2marks]
- b) Describe data representation [2marks]
- c) Define system design and describe its significance [3marks]
- d) Describe the following file organization techniques [6marks]
 - i) sequential organization
 - ii) Direct organization
 - iii) Indexed sequential organization
- e) In (d) above, which file organization has the fastest access to information. state why [4marks]
- f) Why is important to carry out system analysis in the development of a software [3marks]

QUESTION 2

- a) State and describe the types of data files [10marks]
- b) Give the steps of data processing [4marks]
- c) Define data collection [2marks]
- d) Define data security and describe three different ways that data security can be achieved [4marks]

QUESTION 3

- a) Define system analysis [2marks]
- b) Define a byte [1mark]

c) Describe three data collection methods giving their advantages and disadvantages
[9marks]

d) State and explain the data processing modes [8marks]

QUESTION 4

a) What is the purpose of documenting all the activities that are done during software development [2marks]

b) State and describe the different units that data can be organized [8marks]

c) Clearly state the data hierarchy [10marks]

Question 5

a) As an IT specialist, you have been contracted to develop the student management system.

Describe the process. Describe the process that you will follow to come up with the information system [6marks]

b) Describe the main different types of information systems [8marks]

c) Define file security and describe how organizations can achieve file security

[4marks]

d) State two elements of statistics [2marks]