



JARAMOGI OGINGA ODIGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATIONS FOR THE DIPLOMA OF BUSINESS ADMINISTRATION

1ST YEAR, 1ST SEMESTER 2017/18 ACADEMIC YEAR

BUSIA LEARNING CENTRE

COURSE CODE: SCS 2124

COURSE UNIT: BUSINESS SYSTEM ANALYSIS AND DESIGN

EXAM VENUE BUSIA LEARNING CENTRE

DATE: APRIL 2017

TIME :2 HOURS

Instructions

1. Answer question one (compulsory) and any other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examinations room

QUESTION ONE (30 MARKS).

- a) Define information system. (2marks)
- b) What is computerized information system. (3marks)
- c) Explain the function of a feedback loop in an information system. (5marks)
- d) Describe the different types of computerized Information systems. (6marks).
- e) What is testing of information system (3marks)
- f) Give the difference between black box and white box testing(4marks)
- g) Discuss the various methods of acquiring information system hardware. (7marks)

QUESTION TWO (20 MARKS)

- a) Describe the roles of the following ICT professionals (12 marks)
 - i. Systems Analyst
 - ii. I.C.T. Manager
 - iii. Systems Administrator
 - iv. Project Manager
 - v. Database Manager
 - vi. System designer
- b) Explain the meaning of a digital certificate and a virtual private network. (4 Marks)
- c) Differentiate between information and knowledge (4marks)

QUESTION THREE (20 MARKS).

- a) Describe the contents of a good program specification (10marks)
- b) Describe the function of a data flow diagram (2marks)
- c) Explain the components of a data flow diagram (8marks)

QUESTION FOUR (20 MARKS).

a)What is the difference between object-oriented software development and Structured System Analysis and Design Methodologies? (5marks)

b) Describe an Application Software package (5marks)

c)What are the advantages of implementing Application software packages (5marks)

d) Describe the disadvantages of developing information systems based on software packages? (5marks)

QUESTION FIVE (20 MARKS).

a) Define Rapid Application Design (2marks)

b) During information systems development, there are multiple RAD participants. Elaborate (8marks)

c) Describe the components of object oriented software development (10marks)