



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE OF
1ST YEAR 2ND SEMESTER 2016/ 2017 ACADEMIC YEAR

COURSE CODE: IIS 3121

COURSE TITLE: BUSINESS SYSTEMS ANALYSIS

EXAM VENUE: MAIN CAMPUS

DATE: STREAM:

TIME: 2 HOURS EXAM SESSION:

INSTRUCTIONS:

- 1. Answer question 1 in (Compulsory) and any other two questions in**
- 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 examination room**

QUESTION ONE (30 MARKS)

- a) In the context of information systems, state four characteristics of a system
(4marks)
- b) What is structured analysis? Explain its importance. **[4 Marks]**
- c) Define the following terms as used during system analysis project **(2marks)**
- prototyping
 - Fact – finding.
- d) Define at least FOUR elements of a system. **[4 marks]**
- e) What is problem recognition **[2 marks]**
- f) State and briefly explain the symbols used for data flow diagram drawing.
[6 marks]
- g) State and briefly explain three design tools. **(3marks)**
- h) Define the term feasibility study? **(2marks)**
- i) b) Explain the appropriateness of economic and behavioural feasibilities?
(4marks)

QUESTION TWO (20 MARKS)

- a) List and explain the different classes of information system. **[6 marks]**
- b) An important aspect of systems analysis is the fact finding stage depending on the circumstances and the system being studied. Describe THREE methods of fact finding that can be used giving two circumstances in which each may be suitable **. [6 marks]**
- c) With the help of a diagram show and explain the stages of a system development life cycle (SDLC) **[8 marks]**

QUESTION THREE (20MARKS)

- a) Data flow diagrams are the most commonly used way of documenting the process of current and required systems. With a neat diagram, Define and give the components of the DFDs. **[10marks]**
- b) A team of software engineers has been given the task of developing a software solution for all business functions of a certain company. State and explain the steps that should be followed by the team when constructing the entity model. **[10 marks]**

QUESTION FOUR (20 MARKS)

- a) Mcom Co. Ltd is searching for a systems analyst who can effectively handle all the activities related to the systems analysis and design of the corporate information systems.

Explain the competency that the system analyst should poses **[5marks]**

- b) Outline any FOUR functions of project management. **[4 marks]**

- c) Define Normalization? **[2 marks]**

- d) What are different types of Normalization Levels or Normalization Forms?

[9 marks]

QUESTION FIVE (20MARKS)

- a) Discuss three types of systems giving examples in each instance. **[6 marks]**

- b) Outline six areas where systems are most vulnerable. **(6marks)**

- c) Outline four reasons for computer systems being more vulnerable than manual systems to destruction by

- i. error
- ii. misuse
- iii. Fraud.

[8marks]