



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION**

2ND YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS (BBA)

COURSE CODE: SCS 203

COURSE TITLE: INFORMATION SYSTEMS ANALYSIS AND DESIGN

EXAM VENUE: **STREAM:** (BBA)

DATE: **EXAM SESSION:**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. Answer Question 1 (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 examination room

QUESTION ONE (30 MARKS)

- a) Define System Analysis and Design. Differentiate between System Analysis and System Design. **3 marks**
- b) Briefly state what is a system? **2 marks**
- c) Differentiate between an open and a closed system. **2 marks**
- d) State the three categories of information. **3 marks**
- e) Name four players in the system development process. **4 marks**
- f) Briefly define what CASE tools are. State and differentiate between the two types of case tools. **4 marks**
- g) Draw the chart showing the traditional SDLC and describe briefly what happens in each phase. **10 marks**
- h) What is a feasibility study and what is the purpose of conducting the feasibility analysis? **2 marks**

QUESTION TWO (20 MARKS)

- a) What are the characteristics of a system? **5 marks**
- b) Briefly describe the following.
 - i) Collections. **1 mark**
 - ii) Tools. **1 mark**
 - iii) Techniques. **1 mark**
- c) Draw the chart showing the waterfall model. Give two advantages and two disadvantages of the model. **8 marks**
- d) List the four steps in conducting a cost-benefit analysis. **4 marks**

QUESTION THREE (20 MARKS)

- a) State and briefly describe the six skillsets required of a System Analyst. **6 marks**
- b) What are the three phases in decision making process. **3 marks**
- c) Draw a diagram clearly showing the Management Levels with the relevant information levels and system support required. **9 marks**
- d) Describe a system request as pertains to the project initiation process. **2 marks**

QUESTION FOUR (20 MARKS)

- a) List and explain the five elements of a system request. **5 marks**
- b) What are the technical risks that can endanger the successful completion of a project? **4 marks**
- c) List and explain four members of project team in most organizations. **4 marks**
- d) List and explain the criteria for selecting a system development methodology. **5 marks**
- e) Differentiate between prototyping model and throwaway prototyping model. **2 marks**

QUESTION FIVE (20 MARKS)

- a) State the unanticipated consequences of system analysis and design. **3 marks**
- b) What are the three implications in the study of system concepts? **3 marks**
- c) Give four examples of models used in systems development. **4 marks**
- d) State four areas that CASE tools help in the system development process. **4 marks**
- e) State the three techniques used in the feasibility study and briefly discuss them. **6 marks**