



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION
TECHNOLOGY

2ndYEAR 1st SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS (JAB)

COURSE CODE: **IIT 3215**

COURSE TITLE: SYSTEM ANALYSIS AND DESIGN

EXAM VENUE: STREAM:

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 a system. Explain the components of a system. (5 MARKS)
- b) Briefly differentiate between SDLC and CBIS. (5 MARKS)
- c) Outline the detailed characteristics of a system analyst (5 MARKS)
- d) Describe the benefits of using tool in the development of information system.
(5 MARKS)
- e) Explain some of the advantages that make an interview better in comparison to other finding methods. (5 MARKS)
- f) Differentiate between Structured Analysis and Object Oriented analysis
(5 MARKS)

QUESTION TWO**20 marks**

- a) Discuss with examples the Challenges of Information System Design
(10MARKS)
- b) Differentiate between simulation and prototyping. (10 MARKS)

QUESTION THREE**20 MARKS**

- a) Briefly explain how system maintenance is accomplished (10 MARKS)
- b) Describe the role of a systems analyst in the systems development process.
(10 MARKS)

QUESTION FOUR**20 MARKS**

- a) What are some of the guidelines one should consider before using an interview for gathering data? (10 MARKS)
- b) Explain the main stages of the system development life cycle
(10 MARKS)

QUESTION FIVE**20 MARKS**

- a) Discuss different steps in feasibility analysis. (10 MARKS)
- b) With a good illustration explain stages followed during system development in waterfall method. (10 MARKS)