



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
2ND YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR
MAIN SCHOOL BASED**

COURSE CODE: SCS 205

COURSE TITLE: SYSTEMS ANALYSIS AND DESIGN

EXAM VENUE: LAB 5

STREAMS: (BEd)

DATE: 28/8/14

EXAM SESSION: 2.00-4.00 PM

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and any other 2 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

- a) There are many reasons why a systems design method introduced in an organization might fail or does not meet expectations. Identify and explain any five reasons (15marks)
- b) Define the term feasibility study and explain any THREE types of feasibility studies (10 marks)
- c) Describe the following terms giving examples: (5 marks)
 - I. Information system
 - II. Information technology

Question Two

- a) With the help of a diagram and a one way arrow, describe the stages involved in systems development (12 marks)
- b) Describe the relevance of information systems to school administrator (8 marks)

Question Three

- a) Outline the differences and similarities between evolutionary prototyping and incremental approaches to systems development. (8 marks)
- b) Explain the difference between a waterfall and an iterative/incremental System Development Life Cycle. Illustrate your answer with diagrams. (12 marks)

Question Four

- a) Explain what a prototype is and describe how it can be used in Requirements gathering (6 marks)
- b) Outline the advantages and disadvantages of prototyping? (6 marks)
- c) Define the term stakeholder and Identify **two** types of stakeholder other than business analysts describing their roles and responsibilities. (8 marks)

Question Five

- a) Describe any technique for gathering requirement giving atleast its two advantages (5 marks)
- b) Describe the relevance of a systems analyst in systems development (5 marks)
- c) Explain any Four ethical issues in systems development (10 marks)