JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE & TECHNOLOGY
UNIVERSITY EXAMINATIONS 2012/2013
2ND YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS AND SCIENCE) WITH IT
MAIN

COURSE CODE: SCS 203

COURSE TITLE: INFORMATION ANALYSIS AND DESIGN

DATE: 30 .4.2013   TIME: 14.00-16.00PM

DURATION: 2 HOURS

INSTRUCTIONS
1. **This paper consists of 5 Questions.**
2. Answer Question 1 (Compulsory) and any other 2 questions
3. **Write your answers on the answer booklet provided**

QUESTION ONE

   a) Define term information systems (IS)

   b) Discuss different types of feasibility analysis.

   c) Explain the technology, people, and organizational components of an information system.

   d) List and explain the different phases in the systems development life cycle.

   e) Why is it important to use systems analysis and design methodologies when building a system?

   f) Describe the activities performed by the project manager during project initiation.

                                                     (2+6+6+6+6+4 Marks)

QUESTION TWO

   a) What is contained in a Project Plan and who comes up with the project plan?

   b) Describe the structured walkthrough process and state the roles that need to be performed during a walkthrough?

   c) Describe systems analysis and the major activities that occur during this phase of the systems development life cycle.

                                                     (8+8+4 Marks)

QUESTION THREE

   a) What are some useful character skills that an analyst should posses?

   b) What are the general guidelines for designing questionnaires?

   c) Compare collecting information by interview and by questionnaire. Describe a hypothetical situation in which each of these methods would be an effective way to collect information system requirements.   **(4+6+10 Marks)**

QUESTION FOUR

   a) Describe how prototyping can be used during requirements determination and outline if it is better or worse than traditional methods?

   b) What is a data flow diagram and why do systems analysts use them?

   c) What is a systems development methodology? Why use one? **(5+5+10 Marks)**

QUESTION FIVE

   a) Explain the technology, people, and organizational components of an information system?

   b) Differentiate between system implementation and system maintenance

   c) Discuss Four characteristics of a good requirement specification document

                                                    (8+6+6 Marks)