JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE & TECHNOLOGY

UNIVERSITY EXAMINATIONS 2012/2013
2ND YEAR 1ST SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE IN COMPUTER
SECURITY AND FORENSIC

(MAIN)

COURSE CODE: IIT 3122

COURSE TITLE: SYSTEMS BUILDING

DATE: 12/8/2013   **TIME: 2.00-4.00 PM**

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 30MARKS

a) Define a system and highlight its major components. (6marks)
b) Explain the different factors considered in the identification of a problem to be considered for systems building. (8marks)
c) Explain the Phases in system development life cycle. (10 marks)
d) Why it is necessary to give good system documentation. (6 marks)

QUESTION TWO 20MARKS

a) Explain the different ways in which data can be collected during system development. (6 marks)
b) State and contrast the difference between a structured and object oriented approach of systems building. (8 marks)
c) Explain and give an example of a requirement specification document. (6 marks)

QUESTION THREE 20MARKS

a) Defining the architecture of a software system involves the choice of architectural style. Expound on the statement. (5 marks)
b) Discuss the models that can be adopted during system analysis and design.

(10 marks)

c) Explain why its necessary to have good documentation of the system processes and data about the target system. (5 marks)

QUESTION FOUR 20MARKS

a) Data dictionary is an important tool for documentation. Explain what data dictionary is and how it's used in system development. (10 marks)
b) As a system developer, discuss five factors you will consider so as to design a user friendly system. (10 marks)

QUESTION FIVE 20MARKS

a) Organizational aspects of software development are crucial for all successful. projects. Explain (5 marks)
b) Efficient management of software projects must be based on some explicit, strategic goals and organization's interests. Outline some of these goals. (10 marks)
c) When a project manager doesn't create a schedule, the organization is given an unrealistic view of how the project will progress. Discuss. (5 marks)