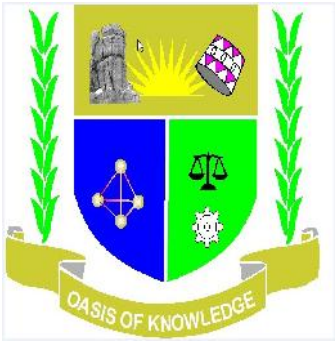

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS: 2013/2014

COURSE TITLE: INFORMATION SYSTEMS ANALYSIS & DESIGN
COURSE CODE: SCS 203
JAB STUDENTS
MAY-AUGUST 2013 EXAMINATIONS

DATE: AUGUST 2013 **TIME: 2 HOURS**

INSTRUCTIONS:

1. **This paper contains FIVE questions**
2. **Answer Question one(Compulsory) and any other two questions**
3. **Write all answers in the book let provided**

QUESTION ONE 30marks

a) Define term information systems (IS)

b) Highlight its major components

c) Discuss three types of maintenance that an be performed to a system

d) Discuss different types of feasibility analysis.

e) Explain the different factors considered in the identification of a problem to be considered for computerization

(**2+6+6+6+10 Marks**)

QUESTION TWO 20marks

a) What is contained in a Baseline Project Plan and are the content and format of all baseline plans the same?

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 20marks

a) Discuss five ways in which data can be collected during system development

b) Differentiate between Top down functional decomposition and object oriented decomposition as forms of design approaches

c) Highlight six characteristics of a good design.

(4+6+10 Marks)

QUESTION FOUR 20marks

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) Explain the convention for naming different levels of data flow diagrams.

d) How can data flow diagrams be used as analysis tools?

(5+5+5+5 Marks)

QUESTION FIVE 20marks

a) Discuss four design constraints in system design

b) Data dictionary is an important tool for documentation. Explain what data dictionary is and how it's used in system development.

c) As a system developer, discuss five factors you will consider so as to design a user friendly system software

(8+6+6 Marks)