



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

END OF SEMESTER EXAMS-APRIL 2014

(KISII L.C)

SCS203;INFORMATION SYSTEM ANALYSIS AND DESIGN

BED ARTS/SNE Y1S2 (SCHOOL BASED)

INSTRUCTIONS

- 1. Answer question 1 (compulsory) and any other 2 Questions**
- 2. Show all your workings where necessary**
- 3. Candidates are advised not to write on the question paper**

TIME: 2 HOURS

QUESTION 1 (30marks)

a) In order to do a cost-benefit analysis, two sides of the ledger must be considered that is

Costs and benefit-Discuss them with examples **(10marks)**

b) Define the following terms as used information systems

i) Analysis **(2marks)**

ii) Design **(2marks)**

iii) Variable cost **(2marks)**

iv) Fixed cost **(2marks)**

v) Proposed system **(2marks)**

c) Feasibility study is one of the factors that has led to a feasible system development, with relevant examples discuss the operational feasibility **(10marks)**

QUESTION 2 (20marks)

a) Describe the sequential system development I life cycle **(10marks)**

b) Explain the following terms

i) Sunk Costs **(2marks)**

ii) Present Value **(2marks)**

iii) Required Rate of Return **(2marks)**

iv) Existing system **(2marks)**

v) ROI **(2marks)**

QUESTION 3 (20marks)

- a) Describe four different measures used to determine economic feasibility **(10marks)**
- b) Illustrate how the prototype model works with a neat diagram **(10marks)**

QUESTION 4 (20marks)

- a) Discuss three different methods to quantify intangible benefits **(6marks)**
- b) Distinguish between the following
 - i) Frontend and backend **(2marks)**
 - ii) RAD and DFD **(2marks)**
- c) Login page is mostly designed for security purposes in various real life system eg banking, hospitals etc with a neat DFD demonstrate the data flow in a login page include :the system administrator, users and data **(10marks)**

QUESTION 5 (20marks)

- a) How can the technical feasibility affect the proposed system? Discuss **(10marks)**
- b) Explain the “ongoing operating cost” **(5marks)**
- c) Distinguish between the following words with examples
 - i) Spending vs Investment **(4marks)**
- d) what is a system specification **(1mark)**