

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013

2ND YEAR 1ST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (COMPUTER SECURITY AND AUDIT)

(KISUMU L.CENTRE)

COURSE CODE: IIT 3215

COURSE TITLE: SYSTEMS ANALYSIS AND DESIGN

DATE: 14/8/2013 TIME: 9.00-11.00 AM

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) Name two major things to consider before creating a system. (2 marks)
- b) When is system analysis carried out? (4 marks)
- c) What does SDLC stand for? Name the various stages that take place. (4 marks)
- d) Name four ways that you can use to gather system requirements. (4 marks)
- e) What is process modelling? Name the technique you used for process modelling while working on your class assignment. (4 marks)
- f) What is a prototype? Name two advantages and two disadvantages of a prototype.

(4 marks)

- g) As a project, system analysis and design can either succeed or fail. Name four reasons a project would fail. (4 marks)
- h) Name four qualities of a good system design. (4 marks)

Questions 2 20marks

i)

In order to create a system that can meet user requirements it is crucial that users are properly consulted.

- a. What are 5 different ways in which current and prospective users can be reached for their opinion? (10 marks)
- b. When users are not forth coming with their requirements what are five techniques a system analyst can employ in order to acquire the same information? (10 marks)

Question 3 20marks.

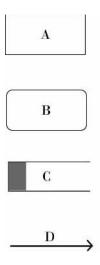
- a. A system can be part of a system whereby automation occurs due to processes that run without the need to be initiated by a person. Name five things you need to consider before working on a replacement of one of the smaller systems that creates the larger one.
- b) The functionality of a system and its ultimate successful implementation will depend in the successful working of its parts. What steps can you take to ensure the systems success?

 (10 marks)

Question 4 20marks

- a. What is a data model? Name two types of data models and three of their characteristics. (10 marks)
- b. What does DFD stand for? State what the shapes below stand for in a DFD.

(10 marks)



Question 5 20 marks

- a. What is project management? (2 marks)
- b. What does JAD stand for? What is its importance in systems design? (4 marks)
- c. What is a CASE tool and what is it used for? Name one type of case tool. (4 marks)
- d. If you answered no to the question (c) above then provide a drawing of the correct diagram. If you answered yes to the question the state why the diagram below is incorrect. (10 marks)

