



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION 2014
SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF EDUCATION
BED YEAR 2, SEMESTER 1(FULL TIME)
KISII LEARNING CENTRE

COURSE CODE: SCS 203

TITLE: INFORMATION SYSTEM ANALYSIS & DESIGN

DATE:

DURATION: 2 HOURS

INSTRUCTIONS:

1. This paper contains FIVE (5) Questions
2. Candidates are advised not to write on the question paper
3. Answer Question 1 (Compulsory) and ANY other 2 Questions.
4. Write all answers in the booklet provided and hand it to the invigilator while in the examination room.

QUESTION ONE (Compulsory 30 marks)

- a. Differentiate between data, information and knowledge (3 marks)
- b. Explain four characteristics of systems (8 marks)
- c.
 - i. what is Schedule Feasibility (2 marks)
 - ii. Explain three types of processing (6 marks)
- d. Differentiate the following data recovery methods (4 marks)
 - i. Backward and forward recovery.
- e. State the two stages involved in batch processing (2 marks)
- f. List three components of a DSS architecture (3 marks)
- g. What is capital investment analysis (2 marks)

QUESTION TWO

- a. Differentiate the following systems (8 marks)
 - i. Open and closed systems
 - ii. Physical and abstract system
- b. Define an information system (2 marks)
- c. Explain three data collection methods giving one advantage and one disadvantage for each (8 marks)
- d. Discuss two components of an executive information system (2 marks)

QUESTION THREE

- a. Explain a computer information system (2 marks)
- b. Explain four desirable features in a database system when used in transaction processing systems (8 marks)
- c. Outline the four software components of an executive information system (4 marks)
- d. Briefly outline the phases of Systems Development Life Cycle (5 marks)
- e. Explain the term Ad hoc (1 mark)

QUESTION FOUR

- a. List five components of a management information system (5 marks)
- b. Describe the phases of SSADM (7 marks)
- c. JOOUST university want to implement a university information management system, list four functions of such a system in the university (4 marks)

- d. i. Define the term Computer-aided software engineering (2 marks)
- ii. List two components of CASE (2 mark)

QUESTION FIVE

- a. Outline three advantages and three disadvantages of the Executive information systems (6 marks)
- b. Define the term feasibility study (2 marks)
- b. Outline the following feasibilities (8 marks)
 - i. Legal Feasibility
 - ii. Operational Feasibility
 - iii. Economic Feasibility
 - iv. Technical Feasibility
- c. Explain office automation and state two advantages of office automation to an organization (4 marks)