



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY**

**UNIVERSITY EXAMINATION 2013.**

**SCS 203 SYSTEM ANALYSIS AND DESIGN**

**Instructions: Answer Question ONE (Compulsory) and any  
other TWO Questions.**

1. (a) Define the term System and describe its characteristics? (5mks)
- (b) Explain Briefly the purpose of carrying out a systems analysis on a system (5mks)
- (c) State and explain the four phases of project management process (8mks)
- (d) Differentiate between functional and non-functional requirements (6mks)
- (e) Define the following terms as used in system analysis
  - (i) System Analysis (2mks)
  - (ii) System Design (2mks)
  - (iii) Data and Information (2mks)
2. (a) What are different Phases of System Development Life Cycle? (12mks)
- (b) Describe four types of information systems: (8mks)
3. (a) Discuss the Important System Concepts (12mks)
- (b) Write short notes on CASE and state its objectives (8mks)

- 4 (a) Distinguish between traditional System Development and CASE (10mks)
- (b) Discuss the two Approaches to Systems Development (10mks)
- 5 (a) Discuss the different types of DFD's (8mks)
- (b) Explain the six (6) areas that Operational feasibility is normally undertaken in System Development (12mks)