



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY (JOOUST)

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS,
SCIENCE, SPECIAL NEEDS EDUCATION WITH IT, SCIENCE IN ACTUARIAL SCIENCE,**

BBA

2ND YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR, SEP./DEC. 2018

**MAIN ; KISUMU CAMPUSES ; NAMBALE LEARNING CENTRE; KISII LEARNING CENTRE
AND NAIROBI LEARNING CENTRE**

COURSE CODE: SCS 203

COURSE TITLE: INFORMATION SYSTEMS ANALYSIS AND DESIGN

EXAM VENUE: ASSEMBLY HALL (AH)

DATE./12/2018

SESSION: 2:00 – 4:00 PM

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two questions**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE (30 MARKS)

- a) Explain the following terms as used in Information Systems Analysis and Design. (10 marks)
 - i. Modelling
 - ii. Fact Finding
 - iii. Interface
 - iv. Logical System Control
 - v. Data processing
- b) Differentiate between *Operational* and *legal* feasibility study (4 marks)
- c) In functional Modeling Techniques, DFD are necessary. With use of your own known example, illustrate the need and use of DFD in Information Systems Analysis and Design. (4 marks)
- d) Explain two possible reasons for information system failure. (4 marks)
- e) Briefly *describe* the need for *Information Systems* in any Business Organization. (5 marks)
- f) What is CIA in System Security? (3 marks)

QUESTION TWO (20 MARKS)

- a) Explain any three types of Fact-Finding methods used during System Analysis phase. (6 marks)
- b) What are the importances of feasibility study? (4 marks)
- c) Explain any four methods used in designing systems. (10 marks)

QUESTION THREE (20 MARKS)

- a) Explain the stages followed when a system is developed using the waterfall method. (10 marks)
- b) Explain five importance of systems in your area of study. (10 marks)

QUESTION FOUR (20 MARKS)

- a) What is System security? Explain how we can secure our systems. (10 marks)
- b) Describe the various types of information systems and their uses (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the basic components of information system. (5 marks)
- b) Outline the detailed characteristics of a system analyst (5 marks)
- c) Explain about the MIS applications in service industry. (10 marks)