



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE
BUSINESS INFORMATION SYSTEMS
1ST YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: ITB2108

COURSE TITLE: BUSINESS INFORMATION SYSTEMS DEVELOPMENT

VENUE: CL I

STREAM: (BSc BIS)

DATE: 29/04/2024

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1) Answer QUESTION ONE (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**
- 4) Mobile phones are NOT allowed in the examination room.**

QUESTION 1 (30 Marks)

- a) Define a system and highlight its major component (6 marks)
- b) Why it is necessary to give good system documentation (6 marks)
- c) Explain the different factors considered in the identification of a problem to be considered for systems building (8 marks)
- d) Explain the Phases in system development life cycle (10 marks)

QUESTION 2 (20 Marks)

- a) Explain the different ways in which data can be collected during system development (6 marks)
- b) State and contrast the difference between a structured and object oriented approach of systems building. (8 marks)
- c) Explain and give an example of a requirement specification document (8 marks)

QUESTION 3 (20 Marks)

- a) Defining the architecture of a software system involves the choice of architectural style. Expound on the statement (5 marks)
- b) Discuss the models that can be adopted during system analysis and design (10 marks)
- c) Explain why it's necessary to have good documentation of the system processes and data about the target system (5 marks)

QUESTION 4 (20 Marks)

- a) Data dictionary is an important tool for documentation. Explain what data dictionary is and how it's used in system development. (10 marks)
- b) As a system developer, discuss five factors you will consider so as to design a user friendly system (10 marks)

QUESTION 5 (20 Marks)

- a) Organizational aspects of software development are crucial for all successful projects. Explain (5 marks)
- b) Efficient management of software projects must be based on some explicit, strategic goals and organization's interests. Outline some of these goals (10 marks)
- c) When a project manager doesn't create a schedule, the organization is given an unrealistic view of how the project will progress. Discuss (5 marks)