



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF, SCIENCE, TECHNOLOGY, AGRIC AND FOOD SYSTEMS DEVELOPMENT

DEPARTMENT OF DIGITAL TECHNOLOGY AND INFORMATION SYSTEMS

EXAMINATION PAPER

COURSE CODE : BIS 211

COURSE TITLE : Systems Analysis and Design

SPECIAL REQUIREMENTS : None

DURATION : 3 Hours

LEVEL : 2.1

DATE : 2026

10 JUN 2026

INSTRUCTIONS TO CANDIDATES:

1. This paper consists of 2 sections
2. Answer **ALL** Questions in SECTION A and ANY TWO Questions from SECTION B in booklet provided.
3. Start each Question on a new page

SECTION A:

Answer **ALL** questions from this section. The section carries **40 marks**

QUESTION 1

- a) Discuss any THREE fact finding techniques, clearly stating advantages and disadvantages of each type [15marks]

QUESTION 2

- a) Explain the following types of feasibility study
- i) Technical Feasibility
 - ii) Economic Feasibility
 - iii) Legal feasibility
 - iv) Operational Feasibility
 - v) Social Feasibility
- [5 X 4 marks]
- b) Outline any 5 the qualities of a good systems analyst. [5 marks]
-

SECTION B:

Choose any **THREE** questions from this section. Each question carries **20 marks**.

QUESTION 3

- a) Explain the term *system user* and explain why system users are important in every stage of SDLC. [12 marks]
- b) Why do systems users resist for a change in most organisations? [8 marks]

QUESTION 4

- a) "Prototype is a paper-based mock-up the models a real system", explain the two types of prototype [10 marks]
- b) Describe the prototype model as a software development methodology [10 marks]

QUESTION 5

- a) Explain in detail the **Object Oriented System Development** Life Cycle including detailed activities carried out in the all the five (5) stages [15 marks]
- b) List the three macro processes of **Object Oriented Systems Development** [3 marks]
- c) Give any (2) two advantages of using the prototype model [2 marks]

QUESTION 6

- a) What is the purpose of system analysis and what qualities are required by a system analyst? [8 marks]
- b) Draw and explain any 5 symbols used in data flow diagrams [10 marks]
- c) Differentiate between **User Documentation** and **Technical documentation** [2 marks]

End of Examination

16/18 AM