



ZIMBABWE EZEKIEL GUTI UNIVERSITY

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

DEPARTMENT OF COMPUTER AND DATA SCIENCE TECHNOLOGY

EXAMINATION PAPER

COURSE CODE : DIS 121
COURSE TITLE : Systems Analysis and Design
SPECIAL REQUIREMENTS : None
DURATION : 3 Hours
LEVEL : 1.2
DATE

23 SEP 2025

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]**
- b) Explain why it is important to gather necessary data before proceeding with system development **[3 marks]**
- c) Identify and explain any 4 testing strategies used in SDLC **[8 marks]**

QUESTION 2

- a) Outline any 6 the qualities of a good systems analyst. **[6 marks]**
 - b) After carrying out the feasibility study, a feasibility study report must be produced. Identify the contents of the feasibility study report. **[8 marks]**
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SECTION B:

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

QUESTION 3

- a) illustrate using a diagram the stages of the waterfall model **[7 marks]**
- b) Explain in detail each of the stages of the waterfall model highlighting all the activities associated with each stage **[8 marks]**
- c) Give five (5) advantages of using the waterfall model **[5 marks]**

QUESTION 4

- a) Using an example of your own choice, explain the difference between a system flowchart and pseudo-code [10 marks]
- b) Differentiate logical design of a system from the physical design [6 marks]
- c) Explain the concept of think aloud when evaluating a design [4 marks]

QUESTION 5

- a) Give a detailed explanation of the Prototyping Concept, you can use a diagram [10 marks]
- b) In detail, explain any three types of prototyping models [6 marks]
- c) Give any 4 disadvantages of using the prototyping model [4 marks]

QUESTION 6

- 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]

End of Paper

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