# ZIMBABWE EZEKIEL GUTI UNIVERSITY

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

### DEPARTMENT OF DIGITAL TECHNOLOGY AND INFORMATION SYSTEMS

### EXAMINATION PAPER

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|---|---|---|
| **COURSE CODE** | : | DIS 121 |
| **COURSE TITLE** | : | Systems Analysis and Design |
| **SPECIAL REQUIREMENTS** | : | None |
| **DURATION** | : | 3 Hours |
| **LEVEL** | : | 1.2 |
| **DATE** | : | 10 FEB 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]**

**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]

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**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**



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