COURSE CODE : CIT 851
COURSE TITLE : Advanced Systems Analysis and Design
CREDIT UNIT : 3
TIME ALLOWED : 2½ HOURS
INSTRUCTION : Answer Four Questions. Question 1 is compulsory

1. a) After looking at what systems analysis is. Is it helpful to know what *systems analysis is* '*NOT*'. Explain. *[6 marks]*
b) Enumerate the initial four phases that were put forth by Herbert Simon to enable problem solving. *[4 marks]*
c) What is Cohesion?. Differentiate between the *Functional and Sequential Cohesion* |5 marks|

d) Explain the techniques involved in concurrent Audit. *[5 marks]*
e) What are the general principles for input design? |5marks|

2. a) Define the concept of subsystem and provide an example of a subsystem that exists in a real-world business setting based on your explanation. *[3 marks]*
b) What is the importance of system documentation in the context of the software development? [6 marks]
c) A good design should aim to produce a system that is simple to understand, programed, and maintain. List the objectives for a successful design. *[6 marks]*

3. a) What distinguishes information requirements determination from information requirements specification? *[6 marks]*
b) Explain the two categories or types of questionnaires that are commonly used. *[4 marks]*
c) What benefits do forms provide in a database management system? *[5 marks]*

4. a) Explain each principle of design that is used in creating the modules specifications *[6 marks]*
b) Enumerate the procedures or actions that should be taken to ensure a successful Joint Application Development (JAD) session. *[3 marks]*
c) Describe the issues or problems related to operational viability. *[6 marks]*

5. a) Based on your understanding of usability, who is a system user? *[3 marks]*
b) Eexplain the purpose of data dictionaries for analysts and provide five reasons why they are considered essential in the field of data analysis? *[5 marks]*
c) Describe the tools used for the representation of various design aspects *[7 marks]*

6. a) List five feasibility types that are considered during the analysis phase. *[5 marks]*
b) State the relevant goals of a good design *[5 marks]*
c) Can you explain in detail why organizations need systems analysts? *[5 marks]*