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) What views do you have about System Analysts with respect to business system? *[3 marks]*
b)b) What are the desirable qualities of a systems analyst?. [*2 marks]*

d) Elaborate on the concept of Coupling and share your insights on what it entails. **[5 marks]**

d) State the measures to be adopted by users to protect themselves against viruses [*5 marks]*
e) write short notes on the following;
    i) cardinality ii) Decision Tree iii) Stress Testing iv) Direct Approach v) Inference Engine
[*10 marks]*

2.a) State and explain the different characteristics of a System. *[5 marks]*
   b) Define prototyping and provide an explanation of its concept. *[5 marks]*
   c) List the fundamental guidelines for input design. [*5 marks]*

3.a) Provide an explanation for each of the five layers of a Distributed System. *[5 marks]*
   b) State the advantage and disadvantages of Questionnaires*. [6 marks]*
   c) Describe how management information systems are used. [*4 marks]*

4.a) State the major tasks of structured system analysis. *[4 marks]*
   b) List the individuals or groups who typically participate in Joint Application Development (JAD*). [5 marks]*
   c) Describe the joint application development in a few sentences. [*6 marks]*

5. a) Explain the role of a systems analyst in modern businesses *[3 marks]*
   b) Illustrate the various parts of a data flow diagram using a graphical representation and provide an explanation for each component*? [8 marks]*
   c) Describe the four types of managerial skills that a systems analyst must possess in order to serve as the team leader for a project. [*4 marks]*

6. a) With an aid of a diagram depict the different phases of the System Development Life Cycle *[7 marks]*
   b) State the guideline required for a good database design. *[5 marks]*
   c) Give a real-world example to illustrate the formal system notion. [*3 marks]*