**COURSE CODE: CIT851**
**COURSE TITLE: ADVANCED SYSTEM ANALYSIS AND DESIGN**
**COURSE CREDIT: 3 UNITS**
**TIME ALLOWED: 2 HOURS**
**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS**

Question 1:
(a.) What is system analysis and not systems analysis?                    (4marks)
(b) Identify the problems of early system development                    (8marks)
(c) Explain the seven forms of cohesion                    (7marks)
(d) Mention six widely used GUI control for Inputs tasks                    (6marks)

Question 2:
(a) Differentiate between real time systems and distributed systems                    (8marks)
(b) Write short notes to explain the four outputs implementation methods                    (4marks)
(c)  What is process modelling?                    (3marks)

Question 3:
(a) Discuss the three standards established for consistent development of information
     Systems                    (3marks)
(b) What are the components of a data flow diagram?                    (4marks)
(c) Explain Entity Relationship Diagram                    (4marks)
(d) Describe Cardinality in relation to Entity Relationship Diagram                    (4marks)

Question 4:
(a) Enumerate the typical participants in a Joint Application Development                    (7marks)
(b) What are three advantages of adopting Joint Application Development style during
information system development                    (4marks)
(c) The main goals of software system design                    (4marks)

Question 5:
(a) Differentiate between the outsourcing and consulting approaches to software
     development in modern businesses                    (4marks)
(b) Who is a system user?                    (5marks)
(c)  What is the essence of structure charts?                    (6marks)

Question 6:
(a) What qualifications are expected of prospecting system analysts in modern
     businesses and   organizations?                    (5marks)
(b) What is the relevance of data dictionary to project design?                    (4marks)
(c)  Discuss the four opportunies in adopting Questionnaires instruments.                    (4marks)
(d)  Highlight the forms of Questionnaires instruments available presently.                    (2marks)