

NATIONAL OPEN UNIVERSITY OF NIGERIA,  
PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI – ABUJA  
FACULTY OF SCIENCES

**COURSE CODE:** CIT 851

**COURSE TITLE:** Advanced Systems Analysis and Design\_

**TIME ALLOWED:** 3 Hours

**INSTRUCTION:** Answer any five (5) questions.

1a. State the guiding principle you would recommend, if you were appointed as a Systems Analyst who equally serves as a group facilitator for a new project in an organisation, (8 marks)

1b. Outline the key phases of a system development life cycle. (6 marks)

**[Total = 14 marks]**

2a. Why is it desirable for Systems Analysts to visit sites of the organisation for which a system is being developed? (8 marks)

2b. Give a concise explanation of the notion of ‘Modularity’. (6 marks)

**[Total = 14 marks]**

3a. Outline five (5) rules that must be observed by a Systems Analyst while observing a site. (10 marks)

3b. List any 4 categories of coupling. (4 marks)

**[Total = 14 marks]**

4a. How do Systems Analysts gather information about an existing system? (10 marks)

4b. List 2 common forms of Interviews. (4 marks)

**[Total = 14 marks]**

5a. Enumerate the steps involved in the process of documentation in Systems Analysis. (8 marks)

5b. What are the main tasks involved in the structured systems analysis approach? (6 marks)

**[Total = 14 marks]**

6a. List and explain the criteria for designing attractive forms. (12 marks)

6b. Define the term ‘Decision Support Systems’. (2 marks)

**[Total = 14 marks]**

7a. Give a brief explanation of the features of a system. (10 marks)

7b. Identify and describe any 2 layers of a distributed system architecture. (4 marks)

**[Total = 14 marks]**