



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_1 EXAMINATION

COURSE CODE: CIT851

COURSE TITLE: ADVANCED SYSTEM ANALYSIS AND DESIGN

COURSE CREDIT: 3 UNITS

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

Question 1:

- (a.) Write short note on systems development (4marks)
- (b) Write a short note to discuss the five characteristics of a system (10marks)
- (c) Write a short note to discuss the physical design of records (6marks)
- (d) Write a short note to discuss the Denormalization (5marks)

Question 2:

- (a) Write short note on the four classifications of a Systems (4marks)
- (b) What are file organization options available to an enterprise? (5marks)
- (c) Mention five important reasons why organization should adopt CASE tools (6marks)

Question 3:

- (a) Discuss the five layers of distributed system architecture (4marks)
- (b) List and explain eight types of CASE tools (8marks)
- (c) Write short note to discuss the implementation of systems (3marks)

Question 4:

- (a) What are the three established standards for consistent development of a system (3marks)
- (b) Explain the key sequence of activities undertaken during system testing (5marks)
- (c) Explain how best an organization should prepare for conversion plan papers (5marks)
- (d) Identify three factors militating against smooth maintenance of software (2marks)

Question 5:

- (a.) What the differences between the structured analysis and design approach? (5marks)
- (b) Highlight five demerits of site visit conducted by system analyst to examine existing system closely and record the activities of the system (5marks)
- (c) What are the pertinent issues likely to be faced during software maintenance (5marks)

Question 6:

- (a.) Explain the three ways of installing a new information system for a business (3marks)
- (b.) Why is site visit a top choice for system analyst in their attempt to understand the existing system and its operations. Identify five of such reasons. (5marks)
- (c.) Discuss the concept of legacy system when undertaking IT projects (5marks)