

NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA FACULTY OF SCIENCES 2023 2 EXAMINATIONS...

COURSE CODE: CIT851 COURSE CREDIT: 3

COURSE TITLE: ADVANCED SYSTEMS ANALYSIS AND DESIGN

TIME ALLOWED: 21/2 HOURS

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER FOUR (4)

OUESTIONS

QUESTIONS

Mention and briefly explain any four (4) duties of a Systems Analyst. (6 marks)

1b. Write short notes on the following SDLC phases.

- i. Project identification and selection
- ii. Project initiation and planning
- iii. Physical design
- iv. Implementation

(6 marks)

- 1c. Identify and describe the steps you would take to design a database for Jekins firm (3 marks)
- 1d. Evaluate the concept of Decision Tree, within the context of Systems Analysis and Design. (2 marks)
- Distinguish between Front-End and Back-End CASE tools, giving examples of each of them (3 marks)
- 1f. Write a short note on Referential Integrity

(2 marks)

[22 marks total]

- 2a. In simple terms, analyse the Divide-and-Conquer approach of system development. (3 marks)
- 2b. Write short notes on the following Information System development approaches;
 - Prototyping
 - ii. Joint Application Development
 - iii. Participatory Design

(6 marks)

2c. Evaluate the concept of "forward engineering" in system development . (3 marks)