



**NATIONAL OPEN UNIVERSITY OF NIGERIA,
PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI – ABUJA
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE
2023_1 POP EXAMINATION.**

COURSE CODE: CIT851

COURSE CREDIT: 3

COURSE TITLE: ADVANCED SYSTEMS ANALYSIS AND DESIGN

TIME ALLOWED: 3 HOURS

**INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3)
QUESTIONS**

QUESTION

- 1a) List and explain the three steps involved in database design *(9marks)*
- 1b) Describe the process of denormalization of tables *(12marks)*
- 1c) Write short notes on Pilot Conversion *(4marks)*

- 2) List and explain five types of files common in RDBMS *(15marks)*

- 3a) Enumerate 8 components of a typical User Manual *(8marks)*
- 3b) Write short notes on the following:
 - i. Parallel Conversion and *(4marks)*
 - ii. First Level DFD *(3marks)*

- 4a) Discuss the key stages involved in any software maintenance activity *(12marks)*
- 4b) Write a short note on Corrective maintenance *(3marks)*

- 5a) Define Disaster Recovery Toolkit. Mention its various components *(13marks)*
- 5b) Write a short note on Perfective maintenance *(2marks)*

- 6a) Discuss the (3) three major steps involved in contingency planning *(12 marks)*
- 6b) Write a short note on Adaptive maintenance *(3marks)*