



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2024 1 EXAMINATION.

COURSE CODE: CIT 844
COURSE TITLE: ADVANCED DATABASEMANAGEMENT SYSTEM
CREDIT UNIT: 3
TIME ALLOWED : 3HRS
INSTRUCTION: ANSWER QUESTION ONE AND ANY FOUR OTHERS

1. Explain the following; (i) Customization of the Database (ii) Data Retrieval (iii) Usage of Query Languages (iv) Multi User Access (v) Data Integrity is Maintained
2. List 3 steps of Query Optimization and explain them
- 3a. What is Optimistic Concurrency Control (OCC)?
- 3b. List at least five (5) failure that could make the DBMS require recovery
- 4a. Define Distributed Database
- 4b. Mention four (4) advantages and disadvantages of distributed database
- 5a. What is backup coordinator in database
- 5b. Write a short on Election Algorithms
6. As a computer scientist in the making, explain to a layman what the **Ring Algorithm** is in a distributed system.