



**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: CIT 302**

**COURSE TITLE: DATA MINING AND DATA WAREHOUSING**

**COURSE CREDIT: 3 UNITS**

**TIME ALLOWED: 3HOURS**

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

- 1a. What is a data warehouse? **(5marks)**
- 1b. Briefly describe the following advanced database systems and applications: Multimedia, the World Wide Web, time series databases. **(6mark)**
- 1c. What is clustering in data mining? **(5marks)**
- 1d. What are the key steps in the data mining process? **(5marks)**
- 1e. List any four data mining functionalities **(4marks)**
  
- 2a. How does a Data warehouse works? **(5marks)**
- b. Mention three (3) advantages and disadvantages of data warehouse **(6marks)**
- c. Mention the Goals of Data Warehouse **(4marks)**
  
- 3a. List the characteristics of data warehouse **(4marks)**
- b. List and explain one data warehouse users. **(6marks)**
- c. What is classification in data mining? **(5marks)**
  
- 4a. List some areas data ware house can be applied. **(4marks)**
- b. List the Four main components of Data warehouse. **(4marks)**
- ci. List the three main types of data ware house **(3marks)**
- cii. Why is data warehouse separated from operational databases? **(4marks)**
  
- 5a. List and explain the types of data warehouse **(9marks)**
- b. Describe data cleansing. **(6marks)**
  
- 6a. Briefly describe the meaning of OLAP? **(4marks)**
- 6b. List the tier of data warehouse architecture **(3marks)**
- c. List the basic techniques used in building a data warehouse. **(3marks)**
- d. What is a snowflake schema? **(5marks)**