



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

COURSE CODE: CIT 302

COURSE TITLE: DATA MINING AND DATA WAREHOUSING

COURSE CREDIT: 3 UNITS

TIME ALLOWED: 3 HOURS

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

- 1a. Give a brief explanation of data mining **(5marks)**
- 1b. What Motivates Data Mining? Why Is It Important? **(5marks)**
- 1c. List the Data mining common classes of tasks **(6marks)**
- 1d. Describe Data Mining and Knowledge Discovery in Databases (KDD) **(5marks)**
- 1e. What are the main goals of data mining? **(4marks)**

- 2a. What is a relational database? **(5marks)**
- bi. What is OLAP? **(3marks)**
- bii. Differentiate between OLTP and OLAP **(7 marks)**

- 3a. List and describe types of data warehouse **(9 marks)**
- b. List and explain any data mining integration schema **(6marks)**

- 4a. Briefly discuss any four of the following data mining issues list as follows: **(10marks)**
 - i. Mining different kinds of knowledge in databases
 - ii. Interactive mining of knowledge at multiple levels of abstraction
 - iii. Incorporation of background knowledge
 - iv. Data mining query languages and ad hoc data mining
 - v. Presentation and visualization of data mining results
 - vi. Handling noisy or incomplete data
- b. List the classification criteria for data mining **(5 marks)**

- 5a. List and describe types of data warehouse **(9marks)**
- b. List the application areas of data mining **(6marks)**

- 6a. What is a data mart? **(5marks)**
- b. List and briefly describe one of the general stages of use of the data warehouse. **(6marks)**
- c. What are the key steps in the data mining process? **(4 marks)**