



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja-Nigeria

FACULTY OF SCIENCE
Department of Computer Science
2023_2 EXAMINATIONS_

COURSE TITLE: DATA MINING AND DATA WAREHOUSING

COURSE CODE: CIT302

CREDIT UNIT: 3

TIME: 2 hours, 30 minutes.

INSTRUCTIONS: Answer question 1 and any other three questions. Question 1 is compulsory

- 1 (ai) Comment on four (4) major sources of data (4 Marks)
1 (aii) What are the key ingredients in Data warehouse technology? (4 Marks)
1 (bi) Explain the concept Data Warehouse? (4 Marks)
1 (bii) What are the different data mining functionalities? (4 Marks)
1 (ci) Explain the concept Boosting as it applies to data mining. (5 Marks)
1 (cii) There are various algorithms used for mining data, outline four (4) only. (4 Marks)
- 2(a) Briefly discuss the following data mining issues list as follows:
i. Mining different kinds of knowledge in databases
ii. Interactive mining of knowledge at multiple levels of abstraction
iii. Incorporation of background knowledge. (7 Marks)
2(b) In data mining, what is data preparation? (4 Marks)
2(c) What are the common types of data preparation methods? (4 Marks)
- 3(a) The two most commonly used measures of dispersion are..... and.....? (5 Marks)
3(b) What is a Box plots? (5 Marks)
3(c) Enumerate the two critical factors for a successful data mining. (5 Marks)
- 4(a) Briefly discuss the roles of data mining in Intrusion detection (7 Marks)
4(b) Attempts five (5) alternates names of data warehouse. (3 Marks)
4(c) How does a data warehouse works? (5 Marks)
- 5(a) Enumerate five (5) advantages of data warehouse. (7 Marks)
5(b) Present clearly five (5) Data Warehouse Components. (4 Marks)
5(c) Explain the difference between OLAP systems versus statistical databases (4 Marks)
- 6(a) How do data mining and OLAP complement each other? (5 Marks)
6(b) How does OLAP handle the analysis of voluminous data with numerous variables? (5 Marks)
6(c) What is the role of data mining in identifying risk factors for loan defaults? (5 Marks)