



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**MAY/JUNE 2012 EXAMINATION**

DAM 301 DATA MINING AND DATA WAREHOUSING  
TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER ANY FIVE QUESTIONS IN ALL

- 1a. Describe Data mining. [5 marks]
- 1b. List and define all the steps involved in Knowledge Discovery Databases (KDD) process. [7 marks]
- 1c. Briefly explain the scope of data mining under the following headings:  
i. Automated prediction of trends and behaviours. [4 marks]  
ii. Automated discovery of previously unknown patterns. [4 marks]
- 2a. Explain any 5 types of data/information often collected in digital form in databases and flat files. [10 marks]
- 2b. Describe the following data mining terms?  
i. Characterization. [2 marks]  
ii. Clustering. [2 marks]  
iii. Discrimination. [2 marks]
- 2c. Briefly explain any 2 types of data that can be mined. [4 marks]
- 3a. Write short note on any three (3) classifications of data mining systems. [6 marks]
- 3b. Write notes on any three (3) data mining issue. [6 marks]
- 3c. Discuss any four (4) challenges that may likely face by the data mining practitioners. [8 marks]

- 4a. Itemise ten (10) technologies or tools used in data mining.  
*[5 marks]*
- 4b. What is a Neural Network in a data mining technology?  
*[4 marks]*
- 4c. Explain with the aid of diagram what is meant by Decision tree.  
*[11 marks]*
- 5a. Highlight the three (3) common types of data preparation methods.  
*[6 marks]*
- 5b. Describe “why Data Pre-processing”? *[6 marks]*
- 5c. Data Mining Applications has a role to play in effective performance of Healthcare industries. Discuss.  
*[8 marks]*
- 6a. Data Mining Applications play some vital roles in Banking and Finance industries. Discuss. *[8 marks]*
- 6b. Define Data Description and highlight sixteen (16) properties that are documented in a typical Data Description Report.  
*[8 marks]*
- 6c. Explain what is meant by Data Mining Technologies. *[4 marks]*
- 7a. Write short note on Multimedia Data Mining. *[6 marks]*
- 7d. List and describe the characteristics of a data warehouse as set forth by William Inmon.  
*[10 marks]*
- 7c. Define a data warehouse. *[4 marks]*