




FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY
DEPARTMENT OF INFORMATION & MEDIA TECHNOLOGY

SECOND SEMESTER 2016/2017 EXAMINATION

COURSE CODE:	IMT 311
COURSE TITLE:	DATA MINING I
CREDIT UNITS:	2
TIME ALLOWED:	2 Hours
COURSE LECTURER(S):	I. O. ALABI
NUMBER OF QUESTIONS:	4
NUMBER OF PAGES:	2 (INCLUDING THIS PAGE)

INSTRUCTIONS

- Answer all questions
- Do **not** use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only

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1. a. Define Data mining. (4 marks)
b. Explain FIVE different data types one can mine and institutions/industries generating such data on a massive scale. (5 marks)
c. Discuss the pros and cons of mining data; give three reasons of each. (6 marks) 15
 2. a. Explain at least **THREE** common interests of data miners in large datasets. (6 marks)
b. Describe the following:
 - i. Data warehouse and Data mart (2 marks)
 - ii. Decision support systems (2 marks)
c. What are the security measures necessary to safeguard a data warehouse. (5 marks) 15
 3. a. Briefly explain any three (3) data mining techniques known to you. (6 marks)
b. Data preparation or pre-processing is one of data mining processes, what are the main activities involved in this process? (6 marks)
c. What are the major benefits of data mining? (3 marks) 15
 4. Write short notes on the following:
 - a. Web mining
 - b. Information retrieval System
 - c. Image mining
 - d. Data mining tools and infrastructure
 - e. Data mining process

20
15

(4 marks each)