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NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES COMPUTER SCIENCE DEPARTMENT 2021 EXAMINATIONS ...

DAM301 – DATA MINING AND DATA WAREHOUSING Credit: 3 units **TIME ALLOWED:** $2^{1}/_{2}$ Hours **INSTRUCTION:** Answer Question 1 and any other FOUR (4) Questions

QUESTIONS

- a. Discuss three applications areas of Data mining? (3Marks)
 b. Illustrate vividly any five data mining databases (Flat files, Relational Database, Spatial Database, Transaction Database, and Multimedia Database) and their examples (5 Marks)
 - c. List and explain data mining systems classification (4 Marks)
 - d. Briefly list and discuss four data mining technologies (4 Marks)
 - e. What is the significance of data preparation in data mining (2 Marks)
 - f. Highlight the goals of data warehouse (2 Marks)
 - g. Highlight the following data warehouse components.(2 Marks)
- 2. a. Briefly explain how data mining works (3 Marks)
 - b. Explain the two crows process model (4 Marks)
 - c. Illustrate the following applications of data mining
 - i. Spatialii. Science and engineeringiii Business
 - iv Games
 - v. Telecommunication (5 Marks)

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3. a. Briefly discuss, the following trends in methods and technologies in Data mining

- i. Collective Data mining
- ii Ubiquitous Data Mining
- . iv Spatial and Geographic Data
- v. Multimedia Data Mining (4 marks)

b. Distinguish between Unsupervised learning and supervised learning used for hypertext and hypermedia data mining (4 Marks)

c, Outline any four data mining tasks (4 Marks)

4a. Discuss discrimination and concept hierarchy operation (5 Marks)

b. Highlight the following data transformation techniques

- i. Normalisation (3 Marks)
- ii Generalisation (2 Marks)
- iii Aggregation (2 Marks)

5.a. List and explain five types of data mined (5 Marks)

b. Highlight the following data mining functionalities

- i. Outlier analysis (2 Marks)
- ii. Evolution and analysis (2 Marks)
- iii. Characterisation (3 Marks)

6.a. Outline the characteristics of data warehousing (4 Marks)

- **b.** State and outline with annotated diagrams the components of data warehouse (4 Marks)
- c. List and discuss data warehouse structure with diagram (4 Marks)