SCHOOL OF SCIENCE AND TECHNOLOGY
October, 2013 Examination

COURSE CODE: DAM 301

COURSE TITLE: DATA MINING AND DATA WAREHOUSING

CREDIT UNIT: 3CREDIT UNITS

TIME: $2^1/_2$HOURS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS IN ALL

1a. Write short note on data warehouse.   [$7^1/_2$ marks]
1b. Briefly explain the scope of data mining under the following headings;
       i.   Automated prediction of trends and behaviours.   [6 marks]
       ii.   Automated discovery of previously unknown patterns.
       [4 marks]

2a. List and write short note on any three (3) classifications of data mining systems.
              [6 marks]
2b   Explain what is meant by the following data mining terms;
       i.   Characterization.
       ii.   Clustering.
       iii.   Discrimination.   [10 marks]

3a. List any 4 types of data that can be mined.   [8 marks]
3b. Explain Data Description, and state its three (3) documented properties.
              [9.5 marks]

4a. List the seven (7) steps involved in Knowledge Discovery Databases (KDD) process.

              [9**¹/₂**marks]
4b. Data Mining Applications play some vital roles in Banking and Finance industries. Discuss.
              [10**¹/₂** marks]

5a. List and explain any three (3) characteristics of a data warehouse as set forth by William Inmon.
              [7**¹/₂** marks]

5b.   Explain any 5 types of data/informationoften collected in digital form in databases and

flatfiles.   [10 marks]

6a.   Explain what is meant by Data Mining Technologies.
      [7$^\mathbf{1}/_\mathbf{2}$ marks]
6b.   Write notes on any four (4) data mining issue.
      [10 marks]