

SECTION C

Long Answer Questions

Attempt any two (2) questions out of three (3) questions [2×15=30]

1. The following table consists of training data. Construct a Decision Tree based on this data, using the basic algorithm for decision tree induction. Classify the records by the "Status" attribute. Write down the rules that can be generated from the obtained decision tree.

Department	Age range	Salary Class	Status
Sales	Middle-aged	High	Senior
Sales	Young	Low	Junior
Sales	Middle-aged	Low	Junior
System	Young	High	Junior
System	Middle-aged	High	Senior
System	Young	High	Junior
System	Senior	High	Senior
Marketing	Middle-aged	High	Senior
Marketing	Middle-aged	Average	Senior
Secretary	Senior	Average	Senior
Secretary	Young	Low	Junior

2. Outliers are often discarded as noise. However, one person's garbage could be another's treasure. For example, exceptions in credit card transactions can help us detect the fraudulent use of credit cards. Using fraudulence detection as an example, propose two methods that can be used to detect outliers and discuss which one is more reliable.
3. Explain important features of SSIS. Discuss the disadvantages of SSIS. Clarify why you use Execute SQL Task in SSIS. [6+5+4]

*****BEST OF LUCK*****

Sept - 2023



EXAMINATION PAPER

FACULTY : COMPUTER SCIENCE AND MULTIMEDIA
 COURSE : MASTER OF COMPUTER SCIENCE
 YEAR/ SEMESTER : FIRST YEAR / SEMESTER TWO
 MODULE TITLE : DATA WAREHOUSING & BIG DATA
 CODE : DWB 121
 TIME ALLOWED : 3 HOURS

Instruction to candidates

1. This question paper has THREE (3) Sections.
2. Answer ALL questions in Section A, VSAQ.
3. Answer 7 questions out of 9 in Section B, SAQ.
4. Answer 2 questions out of 3 in Section C, LAQ.
5. No scripts or answer sheets are to be taken out of the Examination Hall.

Do not open this question paper until instructed

(Candidates are required to give their answers in their own words as far as practicable)

SECTION A
Very Short Answer Questions
 Attempt all questions

[7×2=14]

1. Give a brief introduction about data mining.
2. Write about the support and confidence in mining.
3. Outline the meaning of web mining.
4. Define ODS.
5. Write about data cube.
6. State the qualities of good clusters.
7. Mention the issues during text representation.

SECTION B
Short Answer Questions
 Attempt any seven (7) questions out of nine (9) questions [7×8=56]

1. State the major challenges of mining a huge amount of data (e.g., billions of tuples) in comparison with mining a small amount of data (e.g., data set of a few hundred tuple(s)).
2. A data warehouse is a subject-oriented, integrated, time-variant, and nonvolatile collection of data in support of management's decision making process". Explain.
3. Discuss how can we relate online airline ticket booking as OLTP.
4. Can we generate equivalent SQL for OLAP queries? Explain with example.
5. "Stock market prediction is an important application of time-series analysis". How? Explain with reasons.
6. Give a detail description on Apriori Algorithm.
7. Differentiate between classification and clustering.
8. Briefly explain the different types of web mining.
9. Discuss the Loops in data warehousing.