

SARDAR PATEL UNIVERSITY
M. Sc. (IT) INTEGRATED EXAMINATION, VII SEM

Date : 20th OCT 2016, Thursday
Session : Morning
Course No : PS09CIIT02

Time : 10:00am To 01:00pm
Sub: Data Warehouse and Data Mining
Total marks : 70

Q – 1 Select an appropriate option [08]

- i) Data warehouse bus matrix is a combination of
 - (a) Dimensions and data marts
 - (b) Dimensions and facts
 - (c) Facts and data marts
 - (d) Dimensions and detailed facts
- ii) The data Warehouse is _____.
 - a) read only.
 - b) write only.
 - c) read write only.
 - d) none.
- iii) _____ is a process of determining the preference of customer's majority.
 - a) Association.
 - b) Preferencing.
 - c) Segmentation.
 - d) Classification
- iv) Which of the following is a predictive model?
 - a) Clustering.
 - b) Regression.
 - c) Summarization.
 - d) Association rules.
- v) The absolute number of transactions supporting X in T is called _____.
 - a) confidence.
 - b) support.
 - c) support count.
 - d) None of the above.
- vi) The second phase of A Priori algorithm is _____.
 - a) Candidate generation.
 - b) Itemset generation.
 - c) Pruning.
 - d) Partitioning.
- vii) _____ data consists of sample input data as well as the classification assignment for the data.
 - a) Missing.
 - b) Measuring.
 - c) Non-training.
 - d) Training.
- viii) MLP stands for _____.
 - a) mono layer perception.
 - b) many layer perception.
 - c) more layer perception.
 - d) multi layer perception.

Q – 2 Answer the following Questions (ANY SEVEN) [14]

- i) Write difference between Data Warehouse and Data Mart
- ii) List types of Metadata and explain any one
- iii) Draw a figure of data warehouse building blocks or components
- iv) Write knowledge discovery process
- v) List What kinds of data can be mined
- vi) Explain Market Basket analysis.
- vii) Write Generating association rules from frequent itemsets
- viii) What is classification?
- ix) Write general approach to classification.

Q – 3 a) Explain STAR Schema in detail. [06]

b) What is significant trends? Explain any six. [06]

OR

Q – 3 b) Explain Drill down and Roll up [06]

Q – 4 (a) Explain major issues in Data Mining [06]

(b) Explain what kind of pattern can be mind [06]

OR

Q – 4 (b) Write Data Cleaning in detail. [06]

- Q – 5 a) Explain improving the efficiency of Apriori. [06]
b) Discuss Mining Closed and Max patterns [06]
- OR**
- Q – 5 b) Explain Pattern evaluation methods [06]
- Q – 6 a) Explain decision tree Induction [06]
b) Write Bayes Classification methods [06]
- OR**
- Q – 6 b) Discuss the terms Gain Ratio and Gini Index [06]

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