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Total No. of Questions : 11]   [Total No. of Printed Pages : 6

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M.Sc. IIIrd Semester (New) Examination, 2019

Data Warehousing & Data Mining (Elec-I)

MCSC -304

Time : 3 Hours]   [Maximum Marks : 85

Note :- Attempt all the questions.

SECTION - 'A'

Objective Type Questions   **1×10=10**

1. Choose the correct answer :

    (i)   DSS stands for-

        (a)   Data support service

        (b)   Data support system

        (c)   Decision support system

        (d)   None of these

    (ii)   The data found in the datawarehouse is _____

        (a)   Subject oriented

        (b)   Time-variant

        (c)   Integrated

        (d)   All of these

    (iii) Data can be store, retrieve and updated in-

        (a)   OLAP

        (b)   OLTP

        (c)   FTP

        (d)   SMTP

    (iv)   MOLAP stands for-

        (a)   Multidimensional OLAP

        (b)   Multimedia OLAP

        (c)   Multiple OLAP

        (d)   Model-based OLAP

    (v)   _____ is requent item set mining method-

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(a) Apriori

(b) F P Growth

(c) Both (a) & (b)

(d) None of these

(vi) _____ is the process of finding a model that describes and distinguishes data classes or concepts

(a) Regression

(b) Classification

(c) Prediction

(d) Time series analysis

(vii) Fact constellation is also termed as_____

(a) Star schema

(b) Galaxy schema

(c) Showtlake schema

(d) None of these

(viii) _____ is a flowchart like structure.

(a) Decision tree

(b) Associaton

(c) Classification

(d) None of these

(ix) Which of the following is clustering methods?

(a) Hierarchical

(b) Density-based

(c) Grid-based

(d) All of these

(x) Data mining help in _____

(a) Sales promotion strategies

(b) Marketting strategics

(c) Inventory management

(d) All of the above

SECTION - 'B'

Short Answer Type Questions   5×5=25

2. Discuss the different factors considered during planning a data warehouse.

OR

Define dataware house. Discuss its various components.

3. Explain datawarehouse deployement activities.

OR

Define data mining. Discuss the classification of data mining systems.

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4. Explain Bayesian classification method.

OR

Write short note on lazy learners classification method.

5. What is cluster Analysis? Discuss the defferent types of data used in cluster Analysis.

OR

Define outlier. Discuss various outlier detection methods.

6. Write short not on the following:

   (i) Web mining

   (ii) Multimedia data mining

SECTION - 'C'

Long Answer Type Questions   10×5=50

7. Explain Datawarehouse Backend processes.

OR

Explain the steps involved in knowledge discovery with the help of suitable diagram.

8. What is OLAP? Explain drill-down and roll-up analytical operations of OLAP with suitable example.

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OR

What do you mean by Data preprocessing. Explain Data cleaning, Data integration and data transformation.

9. Describe the following algorithms with suitable example:

   (i) Apriori algorithm

   (ii) FP Growth olgorithm

OR

Explain the following:

   (i) Rule based classification

   (ii) Associative classification

10. Discuss K-means and K-medoids partitioning algorithms with example.

OR

Explain model-based clustering methods.

11. Explain the following : (Any Two)

   (i) Spatial data mining

   (ii) Textmining

   (iii) Descriptive mining of complex data objects.

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