Scheme – G

Sample Test Paper-I

Course Name : Diploma in Computer Science and Engineering

Course Code : CW

Semester : Fifth **17520**

Subject Title : Data warehousing and data mining

Marks : 25 **Time: 1 hour**

Instructions:

1. All questions are compulsory
2. Illustrate your answers with neat sketches wherever necessary
3. Figures to the right indicate full marks
4. Assume suitable data if necessary
5. Preferably, write the answers in sequential order

Q1. Attempt any three questions of the following. (3*3=9marks)

a) How does data reduction technique helps to reduce size of data?
b) State the meaning of the term operational data store, state the use of operational data store.
c) Describe the method of data preprocessing by giving block diagram.
d) Describe the method of Decision Support System used to make decision in organization.

Q2. Attempt any two questions of the following. (2*4=8marks)

a) Why there is need to update the operational data store regularly give reasons?
b) Compare data warehouse and operational system (any four).
c) Describe the needs of data warehousing.

Q3. Attempt any two questions of the following. (2*4=8marks)

a) Draw block diagram of data warehouse architecture and state the functions of each components.
b) Describe any four characteristics of data warehouse.
c) Define metadata and classify metadata into technical and business metadata.

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Sample Test Paper-II

Course Name : Diploma in Computer Science and Engineering

Course Code : CW

Semester : Fifth **17520**

Subject Title : Data warehousing and data mining

Marks : 25 **Time: 1 hour**

Instructions:

1. All questions are compulsory
2. Illustrate your answers with neat sketches wherever necessary
3. Figures to the right indicate full marks
4. Assume suitable data if necessary
5. Preferably, write the answers in sequential order

Q1. Attempt any three questions of the following. (3*3=9marks)

a. State the method of description in data mining.
b. Describe the method classification by decision tree induction.
c. What is the use of prediction methods which applies on data warehouse?
d. State the term mining which applied on World Wide Web.

Q2. Attempt any two questions of the following. (2*4=8marks)

a. Describe fraud detection techniques which applied on knowledge discovery.
b. State the association rules in data mining.
c. Describe few operations technique in OLAP which is used in multidimensional data model.

Q3. Attempt any two questions of the following. (2*4=8marks)

a. Describe six steps which illustrate the innovative technique for knowledge discovery.
b. List four major application of data mining in business.
c. Describe the following schemas for multi dimensional data base
    i. Star ii. Snowflakes iii. Star join iv. Fact Constellation Measures.

Scheme – G

Sample Question Paper

Course Name : Diploma in Computer Science and Engineering

Course Code : CW

Semester : Fifth **17520**

Subject Title : Data warehousing and data mining

Marks : 100 **Time: 3 hours**

Instructions:

1. All questions are compulsory
2. Illustrate your answers with neat sketches wherever necessary
3. Figures to the right indicate full marks
4. Assume suitable data if necessary
5. Preferably, write the answers in sequential order

Q1. (a) Attempt any three of the following **(4*3=12)**

a) State any four need for data warehousing.
b) Describe the needs of data warehousing.
c) Describe the multidimensional data model.
d) State the concept description in data mining.

Q1. (b) Attempt any one of the following **(6*1 = 6)**

a) Describe any six characteristics of data warehouse.
b) Define metadata and classify metadata into technical and business metadata.

Q2. Answer any two of the following **(8*2 = 16)**

a) State the significant role of metadata with examples.
b) Describe the following schemas for multi dimensional data base
   1. Star 2. Snowflakes 3.Star join 4.Fact constellation measures.
c) State the association rules in data mining, write applications of each rules.

Q3. Answer any four of the following **(4*4 = 16)**

a) Describe the method of Decision Support System used to make decision in organization
b) Write stepwise procedure to building data warehouse.
c) State the term mining which applied on World Wide Web.
d) Describe the method of summarization based on characterization.
e) Describe the method of data preprocessing by giving block diagram.

Q.4. (a) Answer any three of the following **(3*4=12)**

a) How does data reduction technique helps to reduce size of data..
b) State the meaning of following
   1. OLAP tools 2. Mining text database

c) Draw block diagram of data warehouse architecture and state the functions of each components.
d) Write various benefits of data ware housing in organization.

Q4 (b) Answer any one of the following (6*1=6)

1. Describe the Aprion Algorithm.
2. Describe the following modes of DSS.
   1. Model management 2.user interface

Q5. Answer any two of the following (8*2=16)

a) Describe operation techniques in OLAP which is used in multidimensional data model.
b) States the following mining techniques.
   1. Constraint based association mining.
   2. Sequential mining.
c) Describe six steps which illustrate the innovative technique for knowledge discovery.

Q6. Answer any four of the following (4*4 = 16)

a) Classify the association rules in data mining.
   Describe the data cleaning techniques.
b) Describe the meaning of concept hierarchies.
c) Describe mining descriptive statistical measures in large database.
d) List four major application of data mining in business.