

Data Warehousing & Data Mining

P. Pages :2

Time :Three Hours



TKN/KS/16/7584

Max. Marks :80

- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No.2.
 3. Solve Question 3 OR Questions No.4.
 4. Solve Question 5 OR Questions No.6.
 5. Solve Question 7 OR Questions No.8.
 6. Solve Question 9 OR Questions No.10.
 7. Solve Question 11 OR Questions No.12.
 8. Assume suitable data whenever necessary.

1. a) Explain in brief the failure of past decision support system. **6**
b) Describe DW Architecture in details. **8**

OR

2. a) Distinguish between:- **8**
i) Data mart and Data Warehouse. ii) Operational and informational system.
b) Justify, Data warehouse is an Environment, not a product. Give the desired feature of new type of environment. **6**

3. a) What are the challenges in Data preprocessing. Also give various forms of preprocessing? **6**
b) What the measures of data dispersion. **4**
c) How data cleaning can be handled in preprocessing? **3**

OR

4. a) Explain Min-max normalization and z-score normalization. **4**
b) What are the strategies used in data reduction techniques. **4**
c) What is need for multidimensional analysis. **5**

5. a) Distinguish between OLTP and OLAP. **6**
b) Explain star schema. States its advantages and disadvantages. **7**

OR

6. a) What are different types OLAP models? **6**
b) Define Data cube and explain OLAP operations on data cubes. **7**

7. a) Explain KDD process. **4**
b) Discuss various kinds of Data used in data mining. **6**
c) Differentiate between clustering and classification. **4**

OR

8. a) Discuss various issues in Data mining. 4
- b) Differentiate between DW and DM. 4
- c) Discuss data mining for the following application domain. 6
- i) Financial data analysis. ii) Retail Industry.
9. a) Write the steps Involved in APRIORI algorithm and explain it. 7
- b) What is the procedure to generate association rules from frequent item set? 6
- OR**
10. Write a short note on:-
- a) Constrained based mining. 5
- b) Steps to improve efficiency of APRIORI algorithm. 5
- c) Advantages and dis advantages of FP-growth tree. 3
11. a) Define Big data. States its challenges. 5
- b) Describe the architectural component of Hadoop ecosystem. 8
- OR**
12. a) Discuss Business intelligence application used in Logistics and production domain. 9
- b) Write a note on BI framework 2020. 4
