

S.No. : 179

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BCS 2041

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 23232

Roll
No.

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B. Tech. Examination 2021-22

(Even Semester)

DATA MINING AND WARE HOUSING

Time : Three Hours]

[Maximum Marks : 60

Note :- Attempt all questions.

SECTION - A

1. Attempt all parts of the following : $8 \times 1 = 8$

- (a) What is fact tables?
- (b) Differentiate between operational and informational data.
- (c) Define data transformation and integration.
- (d) Differentiate between MOLAP and HOLAP.
- (e) Explain association rules.
- (f) What is backup and recovery?

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- (g) What is classification?
- (h) Why is data preprocessing required?

SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$
- (a) How does a snow flakes schema differ from a STAR schema?
 - (b) What are the various requirements of clustering in data mining?
 - (c) How cure is different from chameleon?
 - (d) Explain with diagram the fact constellation schema.

SECTION – C

Note:- Attempt all questions. Attempt any two parts of the following. $8 \times 5 = 40$

- (a) Explain with a help of a diagram the concept of multi-dimensional modeling and data cubes.
- (b) Discuss database architecture of parallel processing.
- (c) Define ETL process of data warehouse.

4. (a) What are elements of dataware house?
(b) Describe a 3-tier data warehousing architecture.
(c) Differentiate between mining values, noisy data and inconsistent data.
5. (a) List and explain the different characteristics of decision tree induction.
(b) Describe the nearest neighbour classification technique.
(c) Explain density based method.
6. (a) Explain the apriori algorithm for frequent item set generation.
(b) Compare OLAP and OLTP system.
(c) Define following term :
 - (i) Data compression
 - (ii) Numerosity reduction
 - (iii) Data cube aggregation

