Bachelor of Science (Information Technology) Semester–V (CBS) Examination

DATA WAREHOUSING

Paper—4

Time : Three Hours]   [Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Define data warehousing. Explain different components of data warehousing.   5

(b) Discuss the following :

(i)   Data metadata

(ii) Data mart.   5

OR

(c) Explain architecture of data warehousing in detail.   5

(d) Explain with example pushing and pulling data.   5

EITHER

2. (a) Give **one** example of the following schemes :

(i)   Snowflake Schema

(ii) Star Schema.   5

(b) What factors are affecting the quality of data in warehousing ?   5

OR

(c) Discuss dimensional modeling and dimensional table with example.   5

(d) Write notes on the following :

(i)   Data Extraction

(ii) Data Transformation.   5

EITHER

3. (a) Discuss the following :

(i)   ROLAP

(ii)   HOLAP

(iii) MOLAP.   5

(b) How data is administered in data warehouse ? Explain.   5

OR

(c) Discuss with example developing a data warehouse.   5

(d) Write short notes on the following :

(i)   Testing

(ii) Monitoring.   5

EITHER

4. (a) Discuss different points considered in building data warehouse.   5

(b) Explain the procedure used for backup and recovery in data warehouse.   5

OR

(c) Explain data mart building and implementation.   5

(d) What do you mean by quality-framework ? Explain.   5

5. Attempt **all** :

(a) What is data granuality ? Give example of it.   2½

(b) Explain fact constellation schema.   2½

(c) What do you mean by tuning in data warehouse.   2½

(d) What are the pitfalls of data warehousing ?   2½