Bachelor of Science (Information Technology) (I.T.) Semester–V 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 well labelled diagrams wherever necessary.

EITHER

1. (a) What is Data mart ? What are types of data marts ? 5

   (b) What are the characteristics of data warehouses ? 5

   OR

   (c) Explain the Architecture of Data warehouse with suitable diagram. 5

   (d) What are the components of data marts ? Explain it. 5

   EITHER

2. (a) Explain snowflake schema with suitable example. 5

   (b) What is ELT process ? Explain it with proper example. 5

   OR

   (c) What is data modelling ? Explain the dimension table and fact table. 5

   (d) Write note on performance of warehouse and data quality. 5

   EITHER

3. (a) Write note on logons powerplay. 5

   (b) What is OLAP ? Explain the different types of OLAPs in data warehouse. 5

   OR

   (c) What is called managed query environment ? How does it support dynamic execution ? 5

   (d) What are the performance issues of data warehouse ? 5

   EITHER

4. (a) Explain the steps to build the data warehouse. 5

   (b) How is Backup and Recovery maintained in a data warehouse ? 5

OR

(c) Write short notes on :

    (i)   Quality framework

    (ii) Pitfall factor   5

(d) Explain the structure of data content of data warehouse.   5

5. Attempt All :

(a) Explain the life cycle of data with suitable diagram.   2½

(b) Explain the fact constellation of schema.   2½

(c) What do you mean by tuning and testing of data warehouse ?   2½

(d) What is the success factor in building of data warehouse ?   2½