

Bachelor of Science (Information Technology) (I.T.) 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) Explain process of building data marts. 5
- (b) What do you mean by metadata ? Explain with example. 5

OR

- (c) Explain architecture of data warehouse in detail. 5
- (d) Give information flow mechanism in data warehouse. 5

EITHER

2. (a) What is data modeling ? What dimensions are considered in data modeling ? Explain. 5
- (b) Explain the following terms :
 - (i) Data transformation
 - (ii) Data quality. 5

OR

- (c) What parameters are considered while evaluating performance of data models used in data warehousing ? 5
- (d) Explain the following in detail with example :
 - (i) Fact table
 - (ii) Fatless table. 5

EITHER

3. (a) Explain the following data warehouses :
 - (i) OLAP
 - (ii) ROLAP
 - (iii) HOLAP. 5
- (b) What platforms are used for OLAP ? Explain any one in detail. 5

OR

- (c) Explain the process of development of data warehouse. 5
- (d) Explain the following terms :
 - (i) Tuning
 - (ii) Feedback loop. 5

EITHER

4. (a) Explain the following steps in building data warehousing :
- (i) Requirement Analysis
 - (ii) Panning. 5
- (b) Explain implementation of data marts in data warehouse. 5

OR

- (c) Explain the following :
- (i) Successful warehouse
 - (ii) Pitfalls. 5
- (d) Explain backup and recovery process in data warehouse. 5
5. Attempt **ALL** :
- (a) Explain lifecycle of data in data warehousing. 2½
 - (b) What do you mean by data loading ? Explain. 2½
 - (c) What are the functions of OLAP ? 2½
 - (d) What do you mean by operating warehouse ? Explain. 2½