

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 labelled diagram wherever necessary.

EITHER

1. (a) What is pushing and pulling data ? Where is it used ? 5
- (b) Explain data granularity in detail. Where is it used in data warehousing ? 5

OR

- (c) Describe an example for building Data Masts in data warehouse. 5
- (d) What are the different classes of data used in data warehousing ? Explain life cycle of data. 5

EITHER

2. (a) Discuss different parameters, affecting the performance of data warehouse. 5
- (b) Define schema in data warehouse. Explain fact constellation schema with example. 5

OR

- (c) What is table in data warehousing ? Explain the following tables with example :
 - (i) Fact table
 - (ii) Fatless table. 5
- (d) Explain how dimensional modeling is used in designing data warehouse. 5

EITHER

3. (a) What is OLAP ? What are the different platforms used for OLAP ? 5
- (b) Explain in brief :
 - (i) Tuning
 - (ii) Feedback loop. 5

OR

- (c) Which OLAP model is best suitable for developing data warehouse ? 5
- (d) Explain :
 - (i) Functions of OLAP.
 - (ii) OLAP considerations.
 - (iii) OLAP Tools and Products. 5

EITHER

4. (a) Explain the role of the following in building data warehouse :
- (i) Requirement Analysis.
 - (ii) Planning. 5
- (b) Explain the procedure needed for operating data warehouse. 5

OR

- (c) What are the pitfalls in building data warehouse ? 5
- (d) Explain the following with respect to building data warehouse :
- (i) Problem Definition
 - (ii) Building data marts. 5
5. Attempt **all** :
- (a) Explain in brief :
- (i) Information flow mechanism.
 - (ii) Data flow. 2½
- (b) Explain one example of snowflake schema. 2½
- (c) How is data monitoring performed in data warehousing ? 2½
- (d) What is backup and recovery in data warehousing ? 2½