Bachelor of Science (Information Technology) (I.T.) Semester—V Examination DATA WAREHOUSING

Paper—4

| Time : Three Hours] [Maximum | | ximum Marks : 50 |
|------------------------------|---|------------------|
| | N.B.:— (1) All questions are compulsory and carry equal marks. (2) Draw neat and labelled diagrams wherever necessary. | |
| | EITHER | |
| 1. | (A) Give architecture of data warehouse and explain it in detail. | 5 |
| | (B) What are the issues in building data mart? Explain. | 5 |
| | OR | |
| | (C) Write short notes on: | |
| | (i) Classification of metadata | |
| | (ii) Importance of metadata. | 5 |
| | (D) Explain how data flow from warehouse to operational system. | 5 |
| | EITHER | |
| 2. | (A) What do you mean by data loading? Explain. | 5 |
| | (B) Describe the snowflake schema with example. | 5 |
| | OR | |
| | (C) Write short notes on : | |
| | (i) Factless Fact Table | |
| | (ii) Surrogate Keys. | 5 |
| | (D) Explain how we can enhance the data warehouse performance. | 5 |
| _ | EITHER | _ |
| 3. | (A) What is OLAP? Explain in detail. | 5 |
| | (B) Explain the following: | |
| | (i) Tuning | _ |
| | (ii) Feedback Loop. | 5 |
| | OR | COLADO |
| | (C) Discuss Data Administration in OLAP. How is it used to improve performa | |
| | (D) List any five functions with its magning and examples used in OLAD | 5 5 |
| | (D) List any five functions with its meaning and examples used in OLAP. EITHER | 3 |
| 4. | (A) List different pitfalls in building Data Warehouse. | 5 |
| Τ. | (B) What are stages in Data Warehouse Design? Explain. | 5 |
| | OR | 3 |
| | (C) Explain backup and recovery mechanism in Data Warehouse. | 5 |
| | (D) Explain following terms in Data Warehousing: | 3 |
| | (i) Requirement Analysis | |
| | (ii) Planning. | 5 |
| 5. | (A) Explain metadata implementation with example. | 2½ |
| | (B) What is Aggregate Table ? Discuss limitations of Aggregate fact tables. | 2½ |
| | (C) Write notes on testing the Data Warehouse: | 2,2 |
| | (i) Unit Testing | |
| | (ii) Integration Testing | 21/2 |
| | (D) Write down critical success factors in Data Warehouse. | 21/2 |