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

Paper—4

e : T	hree Hours] [Full Marks	: 50
N.B	:— (1) All questions are compulsory and carry equal marks.	
	(2) Draw neat and labelled diagram wherever necessary.	
EIT	THER	
(a)	How is data granuality performed in data warehousing?	5
(b)	Explain the following terms:	
	(i) Life cycle of data	
	(ii) Class of data.	5
OR		
(c)	Explain the terms pushing and pulling data in data warehousing.	5
(d)	List and explain characteristics and goals of data warehouse.	5
EIT	THER	
(a)	Compare the following schema used in data warehousing:	
	Fact Constellation Schema and Snowflake Schema.	5
(b)	Explain in detail:	
	(i) Data Extraction	
	(ii) Data Loading.	5
OR		
(c)	List any four types of tables used in modeling of data warehousing and explain any two of tin detail with example.	them 5
(d)	What do you mean by Schema? Explain how it is used in warehousing data with examp	le.
		5
EIT	THER	
(a)	Discuss any two applications of OLAP.	5
(b)	What are the considerations in design of OLAP? Explain.	5
	N.B EIT (a)	N.B.:— (1) All questions are compulsory and carry equal marks. (2) Draw neat and labelled diagram wherever necessary. EITHER (a) How is data granuality performed in data warehousing? (b) Explain the following terms: (i) Life cycle of data (ii) Class of data. OR (c) Explain the terms pushing and pulling data in data warehousing. (d) List and explain characteristics and goals of data warehouse. EITHER (a) Compare the following schema used in data warehousing: Fact Constellation Schema and Snowflake Schema. (b) Explain in detail: (i) Data Extraction (ii) Data Loading. OR (c) List any four types of tables used in modeling of data warehousing and explain any two of the in detail with example. (d) What do you mean by Schema? Explain how it is used in warehousing data with example. EITHER (a) Discuss any two applications of OLAP.

OR

	(c)	Explain multidimensional analysis used in modeling of data warehousing.	5		
	(d)	Briefly explain:			
		(i) Data design			
		(ii) Administration and performance.	5		
	EIT	THER			
4.	(a)	What steps are used in building data warehouse? Explain in detail.	5		
	(b)	Explain the following terms:			
		(i) Quality Framework			
		(ii) Operating warehouse.	5		
	OR				
	(c)	Explain the process of building data marts in data warehouse.	5		
	(d)	Explain the following terms:			
		(i) Problem definition			
		(ii) Planning.	5		
5.	Attempt ALL:				
	(a)	How data flows in data warehouse ?	21/2		
	(b)	Explain star schema with example.	21/2		
	(c)	What is multidimensional analysis? Explain.	21/2		
	(d)	Explain briefly requirement analysis.	21/2		