Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY MCA Integrated - SEMESTER- VII • EXAMINATION - WINTER 2016

5			/11/2016	
Subject Name: DATA WAREHOUSING Time:10:30 am to 1:00 pm Total Mar Instructions: 1. Attempt all questions.		70		
	2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a)	 Answer the following: (i) Define granularity. (ii) State the full form of ETL. (iii) Define metadata. (iv) What is a data mart? (v) What is a compound key? (vi) EIS stands for (vii) The huge amount of data generated in the web environment is called 	07	
	(b)	Write a short note on architectured environment.	07	
Q.2	(a) (b)	What is data warehouse? Explain the salient features of data warehouse in brief. What do you mean by living sample database? Explain the benefits and limitations of living sample database in detail.	07 07	
	(b)	OR Describe the process of placing the operational data into the data warehouse and also explain the associated challenges in brief.	07	
Q.3	(a) (b)	What is a snapshot? Explain various triggers of a snapshot in brief. What is overflow storage? Explain the process of managing overflow storage in a data warehouse mentioning the types of software used. OR	07 07	
Q.3	(a)	What is "wrinkle of time"? Give an example and explain its relevance to data warehousing.	07	
	(b)		07	
Q.4	(a) (b)	 What do you mean by contextual information? Explain its types and state their importance in the context of data warehousing environment. i) State any four uses of EIS. ii) Explain the advantages and disadvantages of event mapping. 	07 04 03	
Q.4	(a) (b)	Explain in detail about the techniques of refreshing a data warehouse. Explain the role of granularity manager and ODS in interfacing between the web and data warehouse environments.	07 07	
Q.5	(a) (b)	What is unstructured data? Explain the challenges related to matching of structured and unstructured data based on text. Explain the difference in design requirements of a data warehouse and a data mart. Which data models would be more suitable of each? Provide appropriate justification for your answer.	07 07	

- Q.5 (a) How is unstructured data organized in a data warehouse? Explain the process of 07 managing the volume of data in an unstructured data warehouse.
 - (b) Write a short note on multidimensional approach for building a data warehouse. 07
