ROLL NO.	

Code: CS482 Subject: DATA WAREHOUSE DESIGN & IMPLEMENTATION

ALCCS - OLD SCHEME

Time: 3 Hours AUGUST 2013 Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.

 $\mathbf{Q.1} \tag{7 \times 4}$

- a. Differentiate between Data Warehouse and Data Mart.
 - b. Explain Data granularity in Data Warehouse.
 - c. Discuss the Disadvantages of snowflake schema.
 - d. Explain the following with reference to Date Warehouse: "Data inconsistencies are removed; data from diverse operational applications is integrated".
 - e. Explain the refreshing of data warehouse.
 - f. What do you understand by referential integrity?
 - g. Explain the benefits of granularity.
- Q.2 a. Explain the four levels of architecture in the data warehouse environment. (9)
 - b. What are the problems with the naturally evolving architecture? (9)
- Q.3 a. What kind of functionality is required as data passes from the operational, legacy environment to the data warehouse environment? (8)
 - b. What do you mean by snapshot? Describe briefly the basic components of a data warehouse snapshot. (10)
- Q.4 a. What are the advantages of Star Schema? Explain. (9)
 - b. What are the various Star Schema Keys? Explain With the help of an example. (9)

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Why monitoring of data in Data Wanshayan is no swing do

- b. Explain the following: (12)
 - (i) Efficient Index Utilization of data
 - (ii) Compaction of Data
 - (iii) Compound Keys
 - (iv) Lock Management
- Q.6 a. Justify "The mapping of local data into global data is the most difficult aspect of building the global data warehouse".(6)
 - b. Explain Redundancy or overlap of data with respect to global data warehouse and its supporting local data warehouses. (6)
 - c. Explain with the help of an example the building and operation of completely unrelated warehouses. (6)
- Q.7 a. Who should be in the Data Warehouse design review? (4)
 - b. What are the technological challenges in bringing the system-of-record data into the data warehouse? (5)
 - c. Write short notes on any \underline{TWO} of the following: (4.5×2)
 - (i) Factless Fact Table
 - (ii) "Fact Table is Deep not Wide"
 - (iii) Drill Down Analysis
 - (iv) Event mapping in EIS processing