

## ALCCS

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**Code: CS482**  
**Time: 3 Hours**

**Subject: DATA WAREHOUSE DESIGN & IMPLEMENTATION**

**AUGUST 2009**

**Max. Marks: 100**

**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.**
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- Q.1**
- a. Differentiate between the operational data & Decision Support System data.
  - b. Explain how the system development life cycle for the data warehouse is exactly opposite to the classical SDLC.
  - c. Explain the four levels of data in the architectural environment.
  - d. Is the data in data warehouse homogenous or heterogeneous? Illustrate with an example.
  - e. What is granularity? Why it is important in data warehouse?
  - f. Explain 'Normalization' in data warehouse. List its advantages.
  - g. List the changes to be made in corporate data model when it is to be applied to the data warehouse. **(7 × 4)**
- Q.2**
- a. Explain the term 'Living Sample Database' in detail.
  - b. What is "Partitioning of data"? Illustrate with an example. Explain the ways to carry it out. Which one is better and why? **(8+10)**
- Q.3**
- a. Explain how process model and data model can apply to the architecture environment? Why Process model is not suitable for data warehouse.
  - b. Explain in detail all the three data warehouse data models. **(8+10)**
- Q.4**
- a. Discuss star join with an example. Creating a star join for the data warehouse is a mistake. Comment.
  - b. Explain Multidimensional DBMS. Discuss the ways of implementing it by providing its strength and weaknesses. How is Multidimensional DBMS different from warehouse? **(8+10)**
- Q.5**
- a. Building the warehouse on multiple levels is easiest scenario to manage, with fewest risks. Explain.
  - b. Discuss in detail "Design review". **(8+10)**
- Q.6**
- a. Discuss the technique of Event Mapping.

b. Explain how the data warehouse acts as a basis for EIS.

**(8+10)**

**Q.7** Write short notes on any **THREE**:

(i)

(ii)

(iii)

data warehouse

(iv)

data

Cyclicality of Data

Drill Down Analysis

Importance of metadata in

Local data V/s Global

**(6+6+6)**