

ALCCS – OLD SCHEME

Time: 3 Hours

AUGUST 2012

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.

Q.1

- a. List the differences between operational data and Decision support system data.
- b. What is data granularity? Explain with example.
- c. Discuss the advantages of star schema.
- d. Explain event-snapshot interaction that causes the data warehouse to become populated with data.
- e. Explain how proper partitioning can benefit the data warehouse.
- f. List what kind of functionality is required as data passes from the operational, legacy environment to the data warehouse environment.
- g. Explain the four levels of data in the architectural environment. (7 × 4)

Q.2 a. Differentiate between primitive and derived data. (9)

- b. Discuss system development life cycle of a data warehouse. What factors should be considered while designing a data warehouse. (9)

Q.3 a. Explain the snowflake schema with the help of examples. (10)

- b. What is a Data warehouse? Explain the characteristics of data warehouse. (8)

Q.4 a. Explain why data warehouse metadata is important. (5)

- b. Discuss the differences between DBMS and Data warehouses. (8)

- c. List strengths and weaknesses of multidimensional DBMS data marts. (5)

- Q.5** a. What is the difference between local and global warehouse. (9)
- b. What is meant by Drill Down analysis? Explain its benefits to the manager. (9)
- Q.6** a. What are issues related to the use and storage of external data in the data warehouse? Explain how such data is stored in a Data warehouse. (9)
- b. Discuss the list of technological challenges includes in data migration methodology. (9)
- Q.7** Write short notes on any **THREE** of the following: (6+6+6)
- (i) The spider web
 - (ii) Auditing of data warehouse
 - (iii) Event mapping
 - (iv) Metadata management