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. \(7 \times 4\)

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.  
     b. What is meant by Drill Down analysis? Explain its benefits to the manager.

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.  
     b. Discuss the list of technological challenges includes in data migration methodology.

Q.7  Write short notes on any THREE of the following:  
     (i)  The spider web  
     (ii) Auditing of data warehouse  
     (iii) Event mapping  
     (iv) Metadata management

(9)  
(9)  
(9)  
(6+6+6)