Paper / Subject Code: 61303 / Datawarehousing.

(2½ hours)

	[Total Marks	75]
N. B.	 : (1) <u>All</u> questions are <u>compulsory</u>. (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> notes (3) Answers to the <u>same question</u> must be <u>written together</u>. (4) Numbers to the <u>right</u> indicate <u>marks</u>. (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u>. (6) Use of <u>Non-programmable</u> calculators is <u>allowed</u>. 	nade.
1.a.b.c.	Attempt <u>any two</u> of the following: Differentiate between operational DBMS and a data warehouse. Explain about fact table and dimension tables in a star schema. Define granularity of facts. Discuss about high and low granularity of facts in a fact table. Explain multi valued dimensions with example.	10
2.a.b.c.d.	Attempt <u>any two</u> of the following: What is a source module? How is it created? What are Oracle Warehouse Builder's client side and server side components? Briefly explain the role of design center. Which oracle database versions support warehouse builder? Discuss hardware and operating system requirements for installing OWB. What is source system metadata? Explain various steps to import metadata from flat files using import metadata wizard in OWB.	10
a.b.c.d.	Attempt <u>any two</u> of the following: Briefly explain about cube and dimension in dimensional model. Explain various characteristics of a dimension. Explain surrogate keys and business keys with examples. Write short notes on: i. Time dimension ii. Slowly changing dimension	10
4. a. b. c. d.	Attempt <u>any two</u> of the following: What is deduplicator operator? How is it used in a mapping? What is staging in ETL process? What are its benefits? What is ETL? Explain about filter operator used in ETL mapping. What are the attribute groups of joiner operator? Explain steps to connect source tables to target table using joiner.	10
5. a. b.	Attempt <u>any two</u> of the following: What is expression operator? Explain the mapping of expression operator. What is transformation operator? How is UPPER() transformation function used? What is object deployment? What are the various deploy actions in object details	10

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window.

d.

What are the various steps to create constants through Constant operator?

6. Attempt <u>any two</u> of the following:

- a. What is multidimensional OLAP? What are its advantages and drawbacks?
- b. Write short notes on the following features of OWB.
 - i. Metadata change management
 - ii. Cut, copy, and paste
- c. Explain data explosion in multidimensional models.
- d. What is a Snapshot? How do you compare one Snapshot with another in OWB?

7. Attempt *any three* of the following:

15

10

- a. What is a source system? Explain various layers in data warehouse architecture.
- b. Write short notes on TO_NUMBER and TRIM transformation functions.
- c. Why is it necessary to synchronize table operators in a mapping with corresponding repository objects? Explain Match by Object Identifier and Match By Object Name synchronization strategies.
- d. Explain about explorer, palette and property inspector windows in mapping editor.
- e. Explain about key lookup and external table operators in brief.
- f. What is the significance of listener process in oracle database server? How is it configured?



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