

- Instruction :**
- (1) Each question carries 5 marks.
 - (2) Draw diagrams neatly using pencil.
 - (3) Questions should be answered in a proper sequence.
 - (4) Use of scientific calculator is allowed. Mobile phones are NOT allowed.

1. Attempt any **TWO** question of the following : [10]
 - (a) What is data warehouse? List and explain the characteristics of data warehouse.
 - (b) Explain star schema and snow flake schema.
 - (c) Differentiate between operational system and informational system.
 - (d) Why a dimension is called Slowly changing dimension? Explain.

2. Attempt any **TWO** question of the following : [10]
 - (a) What are different steps used for configuring a listener in Oracle Warehouse Builder.
 - (b) Explain Oracle Warehouse Builder architecture with diagram.
 - (c) Explain three components of design center.
 - (d) Write the steps to import metadata from a file.

3. Attempt any **TWO** question of the following : [10]
 - (a) Explain multidimensional implementation of data warehouse.
 - (b) Explain how to create target user and target module.
 - (c) Explain how to create a time dimension using time dimension wizard.
 - (d) Explain different steps of creation of a cube in Oracle Warehouse Builder.

4. Attempt any **TWO** question of the following : [10]
 - (a) Write a short note on ETL process.
 - (b) Explain different components of mapping editor in Oracle Warehouse Builder.
 - (c) Write the steps to connect source table to target using joiner operator with example.
 - (d) Explain the following operators:
 - (i) Cube operator
 - (ii) Dimension operator
 - (iii) External Table operator
 - (iv) Table operator
 - (v) Constant operator

5. Attempt any **TWO** question of the following : [10]
 - (a) What is the role of TRIM(), UPPER(), SUBSTR() operator and TO_NUMBER() in ETL mapping?
 - (b) Explain product mapping with diagram.
 - (c) Explain validation in Oracle Warehouse Builder.
 - (d) Write a short note on Control Center Manager.

6. Attempt any **TWO** question of the following : [10]
 - (a) Write a short note on Snapshot feature of Oracle Warehouse Builder.
 - (b) Write a short note on Synchronization in Oracle Warehouse Builder.
 - (c) Differentiate between single hypercube v/s multicube.
 - (d) Write a short note on data sparsity.

7. Attempt any **THREE** question of the following : [15]
 - (a) Discuss the different types of facts with respect to measures stored in the fact table in a Data Warehouse.
 - (b) Explain the procedure for defining source metadata manually with Data Object Editor.

- (c) Explain the tabs Name, storage, Attributes, Levels and Hierarchies in Editor Window of any object that is currently being edited.
- (d) What is staging in data warehouse? List the advantages and disadvantages of staging.
- (e) What is the role of a LOOKUP operator in a mapping?
- (f) Differentiate between ROLAP and MOLAP.

Paper Discussion Schedule for all Subjects: T.Y.B.Sc.IT (Sem. VI)

Date	Day	Timing	Centre
17 April 2017	Monday	9.00 a.m. to 11.00 a.m.	Dadar
17 April 2017	Monday	12.00 p.m. to 2.00 p.m.	Ghatkopar
17 April 2017	Monday	3.00 p.m. to 5.00 p.m.	Dombivli
18 April 2017	Tuesday	9.00 a.m. to 11.00 a.m.	Borivali
18 April 2017	Tuesday	12.00 p.m. to 2.00 p.m.	Andheri
19 April 2017	Wednesday	9.00 a.m. to 11.00 a.m.	Nerul

