**Birla Institute of Technology & Science, Pilani**

**Work-Integrated Learning Programmes Division**

**Second Semester 2013-2014**

**Comprehensive Examination**

**(EC-3 Regular)**

Course No. : SS ZG515

Course Title : DATA WAREHOUSING

Nature of Exam : Open Book

No. of Pages = 1

# No. of Questions = 6

Weightage : 50%

Duration : 3 Hours

Date of Exam : 05/04/2014 (AN)

Note:

1. Please follow all the *Instructions to Candidates* given on the cover page of the answer book.
2. All parts of a question should be answered consecutively. Each answer should start from a fresh page.
3. Assumptions made if any, should be stated clearly at the beginning of your answer.
4. Explain different challenges you will encounter while testing Data Warehouse applications. [7]
5. Explain Partitioning and its significance in DW environment. (give an example). Explain different partitioning techniques supported by DBMS software. [7]
6. How do you classify the importance of Metadata in a DW environment? List and explain three main categories of Metadata. [7]
7. Explain the strengths and weaknesses of ETL and ELT approaches. [8]
8. Why should we stage the data in an ETL architecture? Do you see any situations where there is no need of staging data in ETL? if so, explain with an example. [7]
9. Explain each of the components listed in the below DW system architecture. [14]

