

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Feb 2020

B.Tech. (BI) VI Semester

COURSE CODE: 16B11BI612

MAX. MARKS: 15

COURSE NAME: Data Warehousing and Mining for BI

COURSE CREDITS: 4

MAX. TIME: 1 Hr.

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. The paper is in two Sections. Attempt all questions of a Section at one place.*

**Section A**

- Q1. CO-1 Differentiate between the following. [2]  
(a) Relational database and Object-relational databases.  
(b) Heterogeneous databases and legacy databases.
- Q2. CO-2 Give an example of each of the following attributes: Nominal, Ordinal, Interval and Ratio [2]
- Q3. CO-2 Use the methods below to normalize the following group of data: [6]  
200, 300, 400, 600, 1000  
i. min-max normalization by setting min = 0 and max = 1  
ii. Z-score normalization.  
iii. Decimal Scaling

**Section B**

- Q.4 CO-1 Give a proper definition of Data Mart? What does non-volatile data warehouse signify? [3]
- Q.5 CO-1 Differentiate between OLAP and OLTP under the following heads: [2]  
i. Usage  
ii. Unit of Work  
iii. Data Base Design  
iv. Data Base Size