M. TECH. –III (COMPUTER ENGINEERING) (CBCS – 2015 COURSE) : WINTER - 2017

SUBJECT: SELF- STUDY PAPER- I DATA WAREHOUSING AND DATA MINING

Day: **Thursday** Time: **11.00 AM TO 02.00 PM**
Date: **25/01/2018** **W-2017-2866** Max. Marks: 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the **RIGHT** indicate full marks.
3) Answers to both the sections should be written in **SEPARATE** answer books.
4) Assume suitable data if necessary.

SECTION-I

Q.1 Explain in brief any three Data Mining functionalities. **(10)**

OR

Q.1 Explain the Three –Tier Data Warehousing architecture. **(10)**

Q.2 Explain in brief Discretization and Concept Hierarchy generation. **(10)**

OR

Q.2 Discuss possible design for coupling a data mining system with database and data warehousing system. **(10)**

Q.3 What are different approaches for efficient generalization? Explain algorithm for attribute oriented induction. **(10)**

OR

Q.3 What is Concept Description? How it is different in large database and OLAP. **(10)**

SECTION-II

Q.4 Explain in brief methods for multidimensional Association rules. **(10)**

OR

Q.4 Explain in detail the Iceberg Queries. **(10)**

Q.5 Explain in brief the issues regarding preprocessing data for classification and prediction. **(10)**

OR

Q.5 What is Cluster Analysis? State the requirement of clustering in data mining. **(10)**

Q.6 What is Time Series Database? Explain the trend analysis of time series database. **(10)**

OR

Q.6 What is Spatial Data Mining? Explain in detail statistical spatial data analysis. **(10)**

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