

**B. VOC. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018****(2015 Admission Regular)****SEMESTER VI - SKILL (SOFTWARE DEVELOPMENT)****VSD6S16TB - DATA MINING****Time : Three Hours****Maximum Marks : 80****Part A****I. Answer all questions. Each question carries 1 marks**

1. What is a Data Cube ?
2. Define Metadata
3. Define Data Characterisation
4. Define Classification
5. List out the applications of cluster analysis
6. Define Sequence

**(6x1=6)****Part B****II. Answer any Seven questions. Each question carries 2 marks**

7. What are Outliers ?
8. What do you mean by Information Retrieval ?
9. Explain Enterprise Warehouse
10. Define star schema
11. Define the concept of classification
12. List out the advantage of Tree Pruning
13. List out the applications of cluster analysis
14. Give two commonly used partitioning methods
15. Define Text Mining
16. Define spatial data

**(7x2=14)****Part C****III. Answer any Five questions. Each question carries 6 marks**

17. Differentiate between Data Warehouses and Database Systems
18. What is machine learning? Why machine learning must be performed? Explain its types.
19. List out the OLAP operations and explain the same with an example.
20. Differentiate between OLAP and OLTP
21. Explain Gini Index
22. Explain in detail Tree Pruning approaches
23. Explain density – based methods
24. Explain Partitioning methods

**(5x6=30)****Part D****IV. Answer any Two questions. Each question carries 15 marks**

25. Explain in detail about data mining functionalities
26. Explain the architecture of dataware house.

27. Divide the given sample data in two clusters using K-Means Algorithm.

ID	Height (H)	Weight (W)
1	185	72
2	170	56
3	168	60
4	179	68
5	180	71
6	171	88
7	177	76

28. Explain the applications of Data Mining

**(2X15=30)**