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PG-003-003621 Seat No. _____

B. C. A. (Sem. VI) (CBCS) Examination

July - 2018

CS - 32 : Data Warehousing & Data Mining

Faculty Code : 003

Subject Code : 003621

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

1 Attempt the followings : **20**

(1) WEKA stands for _____

(2) Write down equations of Bayes' Theorem

(3) DSS stands for _____

(4) Which diagram is used to illustrate the hierarchical clustering ?

(5) Define Meta Data

(6) List three types of Agglomerative algorithm

(7) CRISP DM stands for _____

(8) Define Support

(9) _____ is the last phase of Data Mining cycle.

(10) Define Clustering briefly.

(11) _____ is the first phase of Data mining.

(12) Fact table normally includes _____ types of data.

(13) Write down an equation of Bias.

(14) What is OLAP ?

(15) Define Data Mining.

(16) List out TWO types of hierarchical clustering.

(17) Write down equation of Confidence

(18) Define Regression

(19) List out characteristics of Data Warehouse

(20) _____ clustering is opposite process of Agglomerative clustering ?

2 (A) Attempt the following : (Any **Three**) **6**

(1) Explain Extraction of data in ETL

(2) Explain FP-Tree growth algorithm

(3) Explain briefly : Advantages of ROLAP

(4) Explain stages of KDD

(5) List tasks of Query Manager

(6) List out application area of Data Mining

(B) Attempt the following : (Any **Three**) **9**

(1) Fact V/s Dimension Table

(2) Operational V/s Informational System

(3) MOLAP V/S ROLAP

(4) OLTP V/S OLAP

(5) Data Mart V/S Data Warehouse

(6) Two tiered V/S Three tiered DWH architecture

(C) Attempt the following : (Any **Two**) **10**

(1) Explain architectural components of Data Warehouse

(2) Explain steps to develop data warehouse architecture

(3) Explain K-means clustering

(4) Describe Snowflake schema Data Mart

(5) Explain Bayes Theorem and Hypothesis Testing

3 (A) Attempt the following : (Any **Three**) **6**

(1) Explain last phase of Data Mining process.

(2) Explain two tiered Data Warehouse architecture

(3) Explain WEKA

(4) Explain Data warehouse

(5) List disadvantages of MOLAP

(6) Explain Point Estimation

(B) Attempt the following : (Any **Three**) **9**

(1) Explain Partitional Algorithm

(2) Explain Sampling algorithm

(3) Explain Agglomerative Clustering

(4) Explain Association Rules

(5) Explain Nearest Neighbor algorithm

(6) Explain HOLAP

(C) Attempt the following : (Any **Two**) **10**

(1) Write a note on Neural Networks

(2) Explain usage of association in Market Basket Analysis

(3) Explain Apriori algorithm with example

(4) Explain steps for data mining process

(5) Explain Clustering with its classification.
