



RY-003-003621

Seat No. _____

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

March - 2019

CS - 32 : Data Warehousing And Data Mining

Faculty Code : 003

Subject Code : 003621

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Attempt the following : 20

- (1) Define Data Mining.
- (2) Write down equations of Bias and MSE.
- (3) What is Clustering?
- (4) Which diagram is used to illustrate the hierarchical clustering technique?
- (5) What is surrogate key?
- (6) list three types of Agglomerative algorithm.
- (7) Give the name of first tier in three tiered DWH architecture.
- (8) Define Confidence and write down its equation.
- (9) ETL stands for _____
- (10) _____ is the last phase of CRISP Data Mining cycle.
- (11) Which component of DWH architecture shows analysis in graphical format for taking decision?
- (12) Dimension table normally includes _____ data.
- (13) Write down an equation of Bayes Theorem.
- (14) What is nearest neighbor algorithm?
- (15) HOLAP stands for _____

- (16) Which are two types of hierarchical clustering?
- (17) What is WEKA?
- (18) ARFF stands for _____
- (19) What is Support in association rule?
- (20) Which hierarchical clustering is the opposite process of Divisive clustering?

- 2** (A) Attempt the following : (Any **Three**) **6**
- (1) Explain last phase of Data Mining process.
 - (2) Explain Data Granularity.
 - (3) Explain security in Data Mart.
 - (4) What is Data warehouse? List its characteristics.
 - (5) List advantages of ROLAP.
 - (6) Explain Point Estimation.
- (B) Attempt the following : (Any **Three**) **9**
- (1) Differentiate: Operational System & Informational System
 - (2) Differentiate: Fact Data & Dimension Data
 - (3) Differentiate: OLAP & OLTP
 - (4) Differentiate: Data Mart & Data Warehouse
 - (5) Differentiate: ROLAP&MOLAP
 - (6) Differentiate: Two tiered & Three tiered DWH architecture
- (C) Attempt the following : (Any **Two**) **10**
- (1) Explain any two architectural components of Data Warehouse.
 - (2) Explain the usage of association in Market Basket Analysis.
 - (3) Write a note on Binary Decision Tree with suitable example.
 - (4) Describe Star schema Data Mart.
 - (5) Explain Clustering with its classification.

- 3** (A) Attempt the following : (Any **Three**) **6**
- (1) Explain Data cleansing in ETL.
 - (2) What is FP-tree growth algorithm?
 - (3) List advantages of MOLAP.
 - (4) Explain KDD.
 - (5) What is detailed data in data warehouse?
 - (6) List out application area of Neural Network.
- (B) Attempt the following : (Any **Three**) **9**
- (1) Explain Pincer Search Algorithm.
 - (2) Write a note on sampling algorithm.
 - (3) Explain Divisive Clustering.
 - (4) Explain Association Rules.
 - (5) Draw classification of Data Mining & list the techniques.
 - (6) Explain any one type of OLAP.
- (C) Attempt the following : (Any **Two**) **10**
- (1) Write a note on Neural Networks.
 - (2) Explain Basic steps to develop data warehouse architecture.
 - (3) Explain Apriori algorithm with example.
 - (4) Explain steps for data mining process.
 - (5) Explain Bayes Theorem & Hypothesis Testing.
-