



JB-003-003621

Seat No. _____

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

August – 2019

CS - 32 : Data Warehouse and Data Mining

Faculty Code : 003

Subject Code : 003621

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

[Total Marks : 70

1 Attempt following : 20

- (1) _____ is source of data warehouse.
- (2) _____ intermediate storage area between the sources of information and the data warehouse or Data mart.
- (3) _____ is normalized form of star schema.
- (4) ROLAP stands for : _____
- (5) What is metadata.
- (6) Define data mining.
- (7) _____ structure is followed by data mart.
- (8) _____ key is substitute for the natural primary key.
- (9) _____ method is used for hypothesis statistical testing.
- (10) The star schema is composed of _____ fact table.
- (11) Write down Full form and equation of MSE.
- (12) What do you mean by outlier.
- (13) A Process of removing duplicate records is called _____.
- (14) AI stands for :
- (15) Which are two types of hierarchical clustering ?
- (16) _____ OLAP techniques stores data in cubes.
- (17) _____ is the collection of data objects which are similar to one another in the same group.
- (18) Full form of BRICK.
- (19) Name different statistic techniques used for data mining.
- (20) CURE stands for _____.

- 2 (A) Attempt following question : (Any **Three**) **6**
- (1) Explain Data Granularity.
 - (2) Discuss the task of Query manager.
 - (3) Explain advantages and disadvantages of three tier data warehouse system architecture.
 - (4) Define data mart.
 - (5) Write a note on data mining techniques.
 - (6) Explain regression and correlation with concept to data mining.
- (B) Attempt following question : (Any **Three**) **9**
- (1) Differentiate : Operational System and Informational System.
 - (2) Describe ETL.
 - (3) Explain method to calculate the distances between clusters in agglomerative clustering.
 - (4) Draw classification of Data Mining and list the techniques.
 - (5) Describe various parts of genetic algorithm in detail.
 - (6) Explain Point Estimation.
- (C) Attempt following question : (Any **Two**) **10**
- (1) Describe data warehouse with respect to its characteristics.
 - (2) Explain star schema in detail.
 - (3) Explain K means algorithm.
 - (4) Explain Apriori algorithm with example.
 - (5) Explain Hierarchical and agglomerative clustering algorithm.
- 3 (A) Attempt following question : (Any **Three**) **6**
- (1) Which operation performed by load manager.
 - (2) Define meta data.
 - (3) List popular ETL tools.
 - (4) What is FP-tree growth algorithm?
 - (5) List out application area of Neural Network.
 - (6) List out various data mining tools. Explain any one

- (B) Attempt following question : (Any **Three**) **9**
- (1) Explain Basic steps to develop data warehouse architecture.
 - (2) State the difference between OLAP and OLTP.
 - (3) Explain machine learning data mining techniques.
 - (4) Explain Divisive clustering algorithm.
 - (5) Explain association rule mining model with measurement.
 - (6) Explain KDD process.
- (C) Attempt following question : (Any **Two**) **10**
- (1) Explain Decision tree with example.
 - (2) Explain Data mining process.
 - (3) Explain DBSCAN algorithm.
 - (4) How to open file in WEKA for pre processing.
 - (5) What is the role of data mining in education system? Discuss as a case study.
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