



PA-003-003621

Seat No. _____

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

March / April - 2020

CS - 32 : Data Warehousing & Data Mining
(Old Course)

Faculty Code : 003

Subject Code : 003621

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

[Total Marks : 70

1 Attempt following MCQ Question : 20

- (1) Which is the effectiveness measure for OLAP?
- (2) Write down full form of DSS.
- (3) Central repositories of integrated data is called _____.
- (4) MST stands for _____.
- (5) Does pincer-search algorithm work on Bottom-up breadth-first technique? Yes or No.
- (6) Which OLAP combines advantages of other 2 OLAP?
- (7) Foreign key constraints are also referred as _____.
- (8) Which is the last stage in the data mining process as per CRISP?
- (9) Data which represents information about another data is called _____.
- (10) In MOLAP, M represents _____.
- (11) Which kind of data is stored in data warehouse?
- (12) How many types of data marts are there?
- (13) OWB and ODI are tools which are useful for _____.
- (14) The DSS is used only for _____.
- (15) How many types of OLAP are there?
- (16) Report tools lie in which tier of data warehouse architecture?

- (17) List the techniques that represent the structure of the data graphically.
- (18) Data cleaning process removes duplicate records. State TRUE or FALSE.
- (19) Apriori algorithm is based on / subtype of _____ technique.
- (20) Data warehouse contains denormalized data that is never found in the operational environment. State TRUE or FALSE.

- 2 (A) Attempt the following : (Any Three) 6**
- (1) Illustrate logical extraction methods.
 - (2) What is data warehouse?
 - (3) List steps of data mining.
 - (4) Explain Neural network.
 - (5) Explain divisive clustering.
 - (6) Explain informational and operational system.
- (B) Attempt the following : (Any Three) 9**
- (1) Describe clustering.
 - (2) Discuss types of data mart.
 - (3) Explain point estimation.
 - (4) Explain 2-tier architecture.
 - (5) Discuss Partitional algorithm.
 - (6) Explain physical extraction methods.
- (C) Attempt the following : (Any Two) 10**
- (1) Explain machine learning.
 - (2) Explain SAP business objects tool for ETL.
 - (3) Give advantages and disadvantages of OWB and ODI.
 - (4) Discuss tool for ETL process by Microsoft.
 - (5) Explain K-means algorithm.

- 3 (A) Attempt the following : (Any **Three**) **6**
- (1) Give full forms of : DBSCAN, WEKA and CURE
 - (2) Explain mutation.
 - (3) Explain Bayes' theorem.
 - (4) Discuss IBM as ETL tool.
 - (5) Explain hierarchical algorithms.
 - (6) What is staging area?
- (B) Attempt the following : (Any **Three**) **9**
- (1) Explain ROLAP.
 - (2) What is Genetic Algorithms?
 - (3) Write one example for Apriori algorithm.
 - (4) Explain Information Power Center as ETL tool.
 - (5) Create one Star Schema.
 - (6) Explain Frequent Pattern - Tree Growth algorithm.
- (C) Attempt the following : (Any **Two**) **10**
- (1) Explain pincer search algorithm.
 - (2) Explain association rule for data mining.
 - (3) Explain complete working architecture of Data warehouse.
 - (4) Explain OLTP system.
 - (5) Write a case study for market basket analysis.
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