HAE-003-003621 Seat No. _____

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

June / July – 2017

CS-32 : Data Warehouse & Data Mining

Faculty Code : 003
Subject Code : 003621

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

1 Answer following short questions : (All compulsory) **20**

(1) What is data mart?

(2) What is data warehouse?

(3) Full form of OLTP

(4) Full form of OLAP.

(5) Full form of ANN

(6) Full form of ETL.

(7) Full form of KDD

(8) What is data mining?

(9) Why data warehouse is used?

(10) Data warehouse systems are concerned with _____ data.

(11) A _____ algorithm is an information-process in paradigm that is inspired by the way biological nervous systems, such as the brain, process information.

(12) Hierarchical clustering may be represented by a two dimensional diagram known as _____

(13) Classification rules are extended from _____

(14) Full form of MOLAP

(15) Full form of SSAS.

(16) Full form of SSMS.

(17) Full form of SSIS.

(18) Full form of AI.

(19) What is support in Association rule?

(20) Full form of WEKA.

2 (a) Attempt any **three** : **6**

(1) Explain Data warehouse characteristics.

(2) List out data warehouse types and applications.

(3) What is fact and dimension table?

(4) Explain data information and knowledge.

(5) List out any three famous ETL tools providers.

(6) What are the various sources for Data warehouse?

(b) Explain any **three** : **9**

(1) Difference between OLAP and OLTP

(2) What is an informational system? Explain its types.

(3) Difference between independent and dependent data mart.'

(4) What is the use of Data Mart?

(5) What is ETL and how ETL works?

(6) Explain difference between data mart and data warehouse.

(c) Explain any **two** : **10**

(1) Difference between operational and data warehousing system.

(2) What is OLAP? Explain advantage of it and Explain OLAP servers.

(3) Explain three tier architecture of Data warehousing.

(4) Explain the steps to implement a data mart in system.

(5) ETL Process in Detail.

3 (a) Attempt any **three** : **6**

(1) What is data mining?

(2) Why data mining is so important in today's era?

(3) List out the name of data mining structure algorithm (minimum 4)

(4) What is point estimation techniques?

(5) What is crossover and permutation in GA?

(6) What is cluster?

(b) Explain any **three** : **9**

(1) Explain architecture of Data Mining.

(2) Explain Data mining elements in details.

(3) How data mining works in shopping domain?

(4) Explain histogram statistics with example.

(5) Explain naïve bayes theorem with example.

(6) Explain FP tree algorithm with following example.

TID	Items
1	E, A, D, B
2	D, A, C, E, B
3	C, A, B, E
4	B, A, D
5	D
6	D,B
7	A,D,E
8	B,C

(c) Explain any **two** : **10**

(1) Explain the process of Data Mining.

(2) Explain data mining relation with KDD.

(3) Explain how to implement decision tree in practical with steps.

(4) How to implement of dataset into WEKA right down steps.

(5) Explain Hierarchical Clustering with example.
