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MBZ-003-1172001 Seat No. _____

M. Sc. (Statistics) (W.I.F. 2016) (Sem. II) (CBCS) Examination

April / May - 2018

MS - 201 : Data Warehousing & Data Mining

Faculty Code : 003

Subject Code : 1172001

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

1 Attempt the following Questions : (Any 7 out of 10) **14**

(1) Define Data, Information and Knowledge.

(2) Define Meta Data.

(3) Define Data Warehouse.

(4) Define OLAP.

(5) Define Star Schema.

(6) Define Fact Table.

(7) Define Data Mining

(8) Define OLTP.

(9) Define Dimension Table.

(10) List Popular ETL Tools.

2 Attempt the following questions : (Two Out of Three) **14**

(1) Write a note on ETL.

(2) List and explain various types of OLAP (MOLAP, ROLAP, HOLAP)

(3) List various data mining techniques. Explain any one.

3 (A) List various decision tree algorithm. Give real life examples. **7**

(B) Write a note on Knowledge Discovery in Database (KDD). **7**

OR

3	(A)	List various association rule algorithms. Give applications of association rule.	**7**
	(B)	Distinguish : OLTP v/s OLAP	**7**

4	Attempt the following questions : (Two Out of Three)	**14**
	(1) Distinguish: Fact Data v/s Dimensional Data	
	(2) What is star schema? Explain with real time example.	
	(3) Give applications of neural network.	

5	Attempt the following questions : (Two Out of 4)	**14**
	(1) Write a note on use of Data Mining in various fields.	
	(2) Distinguish: Data Warehouse v/s Data Mart	
	(3) Explain the market basket analysis with the use of proper algorithm.	
	(4) List various clustering algorithms. Give applications of clustering.	