10.	(A)	Explain Apriori algorithm for frequent item	sets	using
		candidate generation.		9

- (B) Explain mining multilevel association rules from transaction databases.
- 11. (A) Draw and explain map reduce technique with example.
  - (B) Write a note on characteristics of Big data. 4

## OR

- 12. (A) Describe architecture of Hadoop. Also give its challenges and applications.
  - (B) Write a note on important factors of BI.

## NTK/KW/15/7584

## Faculty of Engineering & Technology Seventh Semester B.E. (Infor. Tech.) (C.B.S.) Examination DATA WAREHOUSING & MINING

Time—Three Hours] [Maximum Marks—80 INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Solve Question No. 1 OR Question No. 2.
- 3) Solve Question No. 3 OR Question No. 4.
- (4) Solve Question No. 5 OR Question No. 6.
- (5) Solve Question No. 7 OR Question No. 8.
- (6) Solve Question No. 9 OR Question No. 10.
- (7) Solve Question No. 11 OR Question No. 12.
- (8) Assume suitable data wherever necessary.
- 1. (A) Explain three tier architecture of data warehouse with neat sketch.
  - (B) Describe the failure of past decision support system.

6

OR

MVM—47669 4 1650 MVM—47669 1 Contd.

2. (A)	What is data mart? How it differs from data warehous	se? 6.	(A)	Discuss the architecture of HOLAP in detail with the help of suitable diagram.
(B)	Explain life-cycle of data warehouse with neat sket	ch. 6	` /	Write a short note on web based OLAP. 4
3. (A)	Summarize the data preprocessing steps in brief	7.5	(C)	What is the difference between OLAP & OLTP ?
(B)	What is data reduction? Explain different method of data reduction.	ods 7.	(A)	Explain the architecture of data mining with neat diagram.
	OR		(B)	List out the data mining issues. 4
4. (A)	What is data transformation? Explain the differmethods of transformation.	ent 9 8.	γ (A)	OR  Describe the classification of data mining systems.
(B)	What are different measures of data dispersion			5
5. (A)	Describe the STAR and SNOWFLAKE scheme veneat sketch.	vith 7	(B)	<ul><li>Explain the application of data mining in (any <b>TWO</b>):</li><li>(i) Financial Institute</li><li>(ii) Retail Industry</li></ul>
(B)	Explain various types of OLAP operations we example.	vith 7		(iii) Telecommunication Industry. 8
	OR	9.	, ,	Explain market basket analysis in detail. 7 Write a short note on association rule mining. 6
				OR
MVM—470	669 2 Cor	itd. MVI	M—47	669 3 Contd.