B.E. Seventh Semester (Information Technology) (C.B.S.) **Data Warehousing & Mining**

P. Pages: 2 Time: Three Hours			s NKT/KS/1 * 0 1 5 5 * Max. Ma	
	Note	s: 1. 2. 3. 4. 5. 6. 7.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12.	
1.	a)		do you mean by strategic Information? Explain the factor that escalated the need for ic information.	7
	b)	Explai	n Data Warehousing life cycle with neat sketch.	6
			OR	
2.	a)	Explai	n the components of Data Warehousing in detail.	9
	b)	What i	is Metadata? State and explain its categories.	4
3.	a)	What i	is the need of Data preprocessing. Explain in brief?	6
	b)		is data transformation? Explain different methods of data transformation by alization.	8
			OR	
4.	a)	What i	s Data Integration? Explain correlation analysis for Numeric & Nominal Data.	8
	b)	Write	short note on Discretization and concept Hierarchy Generation.	6
5.	a)	What i	s OLAP? Discuss basic operations of OLAP with example.	8
	b)	i) R	the following with example. OLAP ii) MOLAP IOLAP	6
			OR	
6.	a)	Differe	entiate between OLAP and OLTP.	6
	b)	Explai	n OLAP characteristics along with major features and functions.	8
7.	a)	List an	nd explain the major issues of data mining.	7
	b)	Descri	be the classification of Data Mining System.	6

OR

8.	a)	What are several stages involved in knowledge data discovery process.	6
	b)	Write short note on:	
		i) Data Mining in Retail Industry.	3
		ii) Data Mining functionalities.	4
9.	a)	Explain various kinds of association rule mining.	
	b)	Explain Market Basket Analysis with example.	7
		OR	
10.	a)	Define the following with example. i) Frequent Item Sets. ii) Closed Item Sets. iii) Association rules.	6
	b)	Explain Apriori algorithm for Frequent Item Sets.	7
11.	a)	What is BI? Explain important factors of BI.	6
	b)	Explain the core components of Hadoop.	7
		OR	
12.	a)	Draw and explain BI architecture.	8
	b)	What is Big-data? What are the different characteristics of Big data.	5
