III B. Tech II Semester Supplementary Examinations, November -2018 DATA WARE HOUSING AND MINING

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answering the question in **Part-A** is compulsory
- 3. Answer any THREE Questions from Part-B

PART -A

<u> </u>			
1	a)	What is data mining? Give an example.	[3M]
	b)	Why concept hierarchies are useful in data mining.	[4M]
	c)	What is data integration and why it is necessary?	[4M]
	d)	What is classification? Explain briefly.	[4M]
	e)	What are the time and space complexities of K-means clustering algorithm?	[4M]
	f)	What is Apriori principle? Explain briefly.	[3M]
<u>PART –B</u>			
2	a)	Explain how the evolution of database technology led to data mining.	[8M]
	b)	Describe any five advanced data base systems and applications.	[8M]
3	a)	What is data preprocessing? Why it is necessary?	[5M]
	b)	Explain different data cleaning methods?	[6M]
	c)	What is attribute subset selection? What are different methods used for this?	[5M]
4	a)	Compare and contrast OLAP and OLTP.	[8M]
•	b)	What are different schemas for design of a data ware house? Explain with neat	[8M]
	-,	sketches.	[]
5	a)	Explain Algorithm for decision tree induction with suitable classification	[8M]
Ü	u)	example.	[01/1]
	b)	Specify the reasons for model overfitting and explain the methods to solve this	[8M]
		problem.	
6	a)	What is association rule Mining problem? Explain Aprori algorithm for finding	[8M]
Ü	u)	frequent item sets with example.	[01/1]
	b)	What is the difference between mining frequent item sets with candidate	[8M]
		generation and without candidate generation? Explain.	
7	a)	Write about Min, Max, and Average links used in clusterings.	[8M]
	b)	Explain K-means clustering algorithm with its additional issues.	[8M]
	U)	Explain ix-incans clustering argorithm with its additional issues.	[OIVI]
