

## Seventh Semester B.E. Degree Examination, Aug./Sept. 2020 **Data Warehousing and Data Mining**

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

## PART – A

1	a.	What is Operational Data Store (ODS)? Explain the ODS structure with neat dia	gram.	
	h	Wind FTI	(08 Marks)	
	b.	What is ETL process? Explain the steps involved in data cleaning.	(08 Marks)	
	C.	What is Meta data? Explain in brief.	(04 Marks)	
2	a.	What is data cube? Explain its operations with suitable examples.	(10 Marks)	
	b.	Bring out the difference between OLAP and OLTP.	(05 Marks)	
	C.	Write short note on: i) MOLAP ii) FASMI characteristics.	(05 Marks)	
3	a.	Discuss the task of data mining with suitable example.	(10 Marks)	
	b.	For the vectors given below find:		
		i) SMC ii) Jacquard co-efficient iii) Hamming distance.		
		$P = 1 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0$		
		q = 0 0 0 0 0 0 1 0 0 1.	(08 Marks)	
			(00 Marks)	
	C.	What are proximity measures?	(02 Marks)	
4	a.	Explain the different factors affecting the complexity of Apriori algorithm.	(08 Marks)	
	b.	Explain FP growth algorithm for discovering frequent ItemSet. What are its limit		
			(08 Marks)	
	C.	Define: i) Confidence of a rule ii) Support of a rule.	(04 Marks)	
		PART – B		
5	a.	Explain Hunt's algorithm and illustrate its working.	(08 Marks)	
4 5 6 7	b.	What are nearest neighbor algorithm?	(08 Marks)	
	c.	Explain the two models of classification.	(04 Marks)	
6	a.	What is Bayesian classifier? Theorem for classification with example.	(10 Marks)	
)	b.	What is predictive accuracy of classification method? Explain different		
		estimating predictive accuracy and errors.	(10 Marks)	
7	a.	Explain the K – means clustering algorithm with suitable example.	(10 Marks)	
		Discuss about hierarchical clustering algorithm.	(05 Marks)	
	C.	What is density based clustering?	(05 Marks)	
8		Write short notes on:		
U	a.	Spatial data mining		
	b.	Text clustering		
	c.	Temporal data mining		
	d.	Web content mining.	(20 Marks)	
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