

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Data Warehouse and Data Mining

Program: B.Tech CSE-Cyber Laws

Course Code: CSEG 411

Semester: VII Time 03 hrs.

Max. Marks: 100

Instructions:

	SECTION A		
S. No.		Marks	CO
Q 1	Why metadata is important? 'How to provide metadata in warehouse?	04	CO
Q 2	What is ETL? Explain the steps in ETL.	04	CO2
Q 3	What is classification in data mining? Explain 2 classification-models with example.	04	CO
Q 4	Develop the Apriori algorithm for generating frequent-itemset.	04	CO ²
Q 5	What is Bayes Theorem? Show how it is used for classification.	04	CO
	SECTION B	l	
Q 1	Identify and describe the phases in the KDD process. How does KDD differ from data mining?	10	CO ²
Q 2	Design a star-schema, snowflake schema and fact constellation schema for the data warehouse that consists of the four dimensions: (Time, Item, Branch and Location). Include the appropriate measures for the schemas.	10	CO
Q 3	What is a data warehouse? What is the need for a data warehouse? Also discuss the goals of a data warehouse.	10	CO
Q 4	What is hierarchical clustering method? Explain the algorithms for computing distances between clusters. OR How decision-trees are used for classification? Explain decision-tree induction algorithm for classification	10	CO

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2 1	Consider the following to	transactio	on database:						
			1						
		TID	Items						
		1	A,B,C,D						
		2	A,B,C,D,E,G						
		3	A,C,G,H,K						
		4	B,C,D,E,K						
		5	D,E,F,H,L A,B,C,D,L						
		7	B,I,E,K,L						
		8	A,B,D,E,K						
		9	A,E,F,H,L						
		10	B,C,D,F						
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