R15 Code No: 127CD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2018 DATA WAREHOUSING AND DATA MINING (Computer Science and Engineering) Max. Marks: 75 Time: 3 Hours Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART-A (25 Marks) [2] Differentiate Data warehouse and DBMS. 1.a) Write two differences between OLAP and OLTP . [3] b) [2] What is meant by KDD? c) Discuss about data cleaning. d) Differentiate multiple and multilevel association rule mining. [2] [3] Discuss about the concept hierarchy generation. f) [2] Explain about Entropy and Information gain. g) [3] Define two step classification process. h) [2] Mention the Key issues in hierarchical clustering. i) [3] Differentiate OPTICS and DBSCAN. j) PART-B (50 Marks) What is a Data Warehouse? Explain three types of schemas that are used for modeling 2. data warehouse with examples. State the applications of Data mining. What is its need in [10] Business? Define Data Cube computation. Explain the various methods for Data Cube Computation. Discuss Construction of Multi-dimensional model. And its operations. [10] What is the need for Data preprocessing? Discuss briefly various forms of Data -4.

preprocessing.

How to handle missing values in data sets?

Discuss attribute subset selection for dimensionality reduction.



OR

8R	8R	8R	8R	8 R	8R	8R.	
6.	Construct the F detail with min	P-Tree from th imum support =	e given Transac = 3.	tional Database. E	Explain the proced	dure in [10]	
8 : R	8R	$\mathbb{S} = \begin{bmatrix} TI \\ 10 \\ 20 \end{bmatrix}$	D Items 0 F, A, C, D, C		-8R	8E	
,,,,,		40	00 B, F, H, J, O 00 B, C, K, S, F 00 A, F, C, E, L)	Q D	2 P	
8 H	dk,	SKT.	OR	ance to associatio	n rule. Explain t	he Apriori	
7.	Explain marke algorithm usin Illustrate with	g the following	sis and its reiev g transactional d	ata assuming that	the support cour	nt is 22%. [10]	
8R	8R	001 002 003	milk, da Dal, sug Milk, br	F ITEMS I, sugar, bread ar, wheat,jam ead, curd, paneer paneer, dal, sugar	38R	8R	
S R.	Explain them	with example.	Milk, pa Wheat, of be used for Dar Discuss the rol	dal, paneer, bread ta classification?			
9.	Bagging and	Boosting techi	ds of evaluating niques?	accuracy of a cla			20
) S []10.	Explain the p	oartitioning me	ethods? Solve the {2, 4, 10, 12, 8,	ne following prob 20, 30, 11, 25} wh			
11.	How Density algorithms.	y based cluste Compare both.	ring algorithms Explain DBSC	are different fro AN algorithm with	suitable exampl	e. [10]	
8R,	8R	8.	-,000c	90	8R	8R	
	2 P	8R	8 =	8 R	88	8R	