P P SAVANI UNIVERSITY

Sixth Semester of B. Tech. Examination Dec 2022

SECE3031 Data Warehouse & Data Mining

3.12.2022, Saturday

Time: 01:00 p.m. To 03:30 p.m.

Maximum Marks: 60

3. Make su	I and II must be attempted in separate itable assumptions and draw neat figu rientific calculator is allowed.				
		SECTION - I			
Q-1	Answer the Following: (Any five)		[05]	CO	BT
(i)	List out types of Data.		- /	1	2
(ii)	In data mining, how many categories	of functions are included?		1	1
(iii)	What is Extraction of Data?			1	1
(iv)	Define: noisy data			1	2
(v)	What is Pattern Evaluation?			1	1
(vi)	Define fact Table.			2	1
(vii)	Define star schema.			2	1
Q-2(a)	Explain methods of Data Computatio	on?	[05]	1	2
Q-2(b)	A database has five transactions. Let		[05]	1	5
	min conf = 80%TID	ITEMS			
	100	{C, O, O, K, E, Y}			
	200	{L, O, N, E, L, Y}			
	300	{T,A,K,E}			
	400	{M,O,N,K,I,E}			
	500	{B,A,K,E}			
	Find all frequent itemset using FP-gr				
0.26)	Fullin Completion Application tables	OR	[05]	1	
Q-2(a)	Explain Co relation Analysis with exa		[05]	1	. 2
Q-2(b)		ng? Explain with suitable application.	[05]		
Q-3(a)	What is data cleaning? Discuss var during data cleaning.	rious ways of handling noisy values	[05]	1	
Q-3 (b)		the help of a suitable diagram explain the n databases.	[05]	1	:
		OR			
Q-3(a)	Discuss the constraint-based Associa	ation Rule Mining.	[05]	1	
Q-3 (b)	Discuss the issues of Data Mining.		[05]	1	
Q-4	Attempt any one.		[05]		
(i)	Explain OLAP operations in detail wi	ith suitable examples.		2	
(ii)	Explain Datamining Architecture in o	detail.		2	
	SECTION -	Ш			
Q-1	Answer the Following: (Any five)		[05]		
				1	
	what is brediction:				
(i) (ii)	What is prediction? What is accuracy of a prediction?			1	

(iv)	What is regression?		1	2
(v)	Define outlier analysis.		1	1
(vi)	Enlist types of clustering.		1	2
(vii)	Define K-means.		1	1
Q-2(a)	What is IDE3? Explain with example.	[05]	1	4
Q-2(b)	Explain how SVM classification works.	[05]	1	2
	OR			
Q-2(a)	Explain Lazy Learner with example.	[05]	1	4
Q-2(b)	What is backpropagation? Explain with suitable diagram.	[05]	1	2
Q-3(a)	Explain Bagging and Boosting.	[05]	1	2
Q-3(b)	Difference between linear and non-linear regression in detail	[05]	1	3
	OR			
Q-3(a)	Explain Density-Based Clustering	[05]	1	2
Q-3(b)	Define "clustering"? Mention any two applications of clustering.	[05]	1	6
Q-4	Attempt any one.	[05]	****	1000
(i)	What is r2 in regression? Explain what is SSE, SSR, and SST in regression		1.	4
	and how to find out the values of each term.			
(ii)	Difference between classification and prediction.		1	4
