

Persivementh Charitable Grasics A D. STRATT INSTRUMENTED OF THE CHANGE OF Management by AICT New Bulls & Coast of Maharashira. Affiliated to University of Mumbail

(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai) (Religious Jain Minority)

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (DATA SCIENCE)

RETEST UNIT TEST-I

Class:TEDS Semester:V Subject:DWM

Date: 06-Nov-2023 Time:02:30pm to 04:00pm Max marks: 40

Note the following instructions

- 1. Attempt all questions.
- 2. Draw neat diagrams wherever necessary.
- 3. Write everything in Black ink (no pencil) only.
- 4. Assume data, if missing, with justification.

Q.N	Questions	MAR KS	СО	Bloom Level	PO
Q.1.	Attempt any two.				
A.	What is web structure mining? List the approaches used to structure the web pages to improve effectiveness of search engine and crawlers.	[5]	CO6	L2	
B.	Explain web usage mining in detail.	[5]	CO6	L2	
C.	What is web content mining, and how does it differ from traditional data mining techniques?	[5]	CO6	L2	
D.	How is PageRank used by search engines like Google to rank web pages?	[5]	CO6	L2	
Q.2.	Attempt any two				
A.	Find the frequent item set in the following database of given transactions with min support 50% and confidence 70% TID ITEMS 100 1 3 4 200 2 3 5 300 1 2 3 5 400 2 5	[10]	CO5	L3	PO2
B.	For the following transactional database construct FP tree.	[10]	CO3	L3	PO2

	TID	Items					
		B D C A					
	1 2	E D C					
	3	A B					
	4	A C D					
	5	F G D B					
C.			ent patterns using the	[10]	CO3	L3	PO2
C.	FP-growth algorithm		003	L3	102		
	I1 :						
Q.3.		3:3 14: 5:1 14:1	1				
A.	Find clusters using k several objects (4 type two attributes or features is to group these objects the two features (pH		CO4	L3	PO1		
	Object Attribute 1 (X) Attribute 2 (Y)						
	.	Weight Index	pH				
	Medicine A	1	1				
	Medicine B	2	1				
	Medicine C	4	3				
	Medicine D	5	4				
B.	For given distance m	natrix draw single	and complete linkage	[10]	CO4	L3	PO1
	dendogram						
	1	2 3 4 5					
	1 0	ostn 2014 272 2741	1				
	2 9	0					
	2 9 3 3	$ \begin{array}{cccc} 0 & & & \\ 7 & 0 & & \\ 5 & 9 & 0 & \\ \end{array} $					
	4 6	5 9 0					
	5 11	10 2 8 0					