PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

Department: Computer Technology

Semester: VI

Section: A and B

CAT-II (2022-23) Subject:Data Warehousing and Mining

Duration:1.5Hrs

SubjectCode:BTCT602T

Max.Marks:35

Note:

1) All questions are compulsory.

2)All questions carry marks as indicated. 3)Due credits will be given on neatness.

		g-ren on nea	Questions	v diagram wherev	er it is neces	sary.		
						Marks	CO	BT
A.	Which one of the following correctly defines the term cluster?							Level
	Group of similar objects that differ significantly from other objects b) Symbolic representation of facts or idea of					1M	CO3	1
Q.1 '	b) Symbolic representation of facts or ideas from which information can						1	
1	potentially be extracted						1	
1	Operations	on a database	to transform or	simplify data in and				1
	d. Operations on a database to transform or simplify data in order to prepare						1	1
	u). All of the above						1	
	B. The learning which is used for inferring a model from labeled training data scalled?							
115	b) Reinforcement learning b) Reinforcement learning						CO3	1
l a	Unsupervise	ed learning b) Reinforcemen	t learning		1	1	1
y ~	Souther ATSECT 16	arning a	Miccina data				1	1
10	Consider the	e IOllowing da	tacat consisting	C .1	O voriables	5M		
16	C. Consider the following dataset consisting of the scores of two variables on each of seven subjects. Design K Means clustering for the data set for two clusters.						CO3	3
19	clusters.			or the data s	er for fMO			1
1		Subject	Α	В	٦			1
		1	1	1	1	1		1
		2	15	2	1			.1
1		3	3	4	4		-	.
1 1		4	5	7	4			1
1 1		5	3.5	5	4 .		- 1	1
1 1		6	4.4	5	-	1	- 1	1
1 1		7	3.5	4.5	\dashv	,		- 1
					_			
				OR				
	A. Identify the example of Nominal attributeone.						M C	O3 :
1	a) Temperature b. Mass c. Salary d.Gender							
Q.2	B. Which is needed by K-means clustering?						M C	O3 :
1 4.2	a) defined distance metric b) number of clusters c. initial guess as to							
1	cluster cent	roids d. all o	f these					
				stering approach?	Explain	5	M C	О3 :
	agglomerat	tive and divisi	ve hierarchical	clustering.				
								- I
\	A. A collection of one or more items is called asrecovery. a) Support b) Itemset c) Confidence d) Support Count						М	04
	B. When	do you conside	er an association	rule interesting?		1	M C	04
\ Q	a)/If it o	nly satisfies m	in support b)l	f it only satisfies mi	n_confidence			
1	(g) If it sa	tisties both mi	n_support and n	nin_confidence				

$\overline{}$	$\neg \neg$	
5M	M CO4	2
)1A1	W 00 '	
7M	M CO4	3
/ IVI	W 00 .	
		1
		1
		1
1M	1M CO4	1
1141	1111	
1M	1M CO	1 1
-114		1
5M	5M CO	4 2
JIVI	J	' -
7M	7M CC	4 2
	,	
1M	1M CO)5 1
		- 1
1M	1M C	05 :
1141	1W	
AM	4M C	05 3
_		05 3
OIVI	OIM C	~ '
T 1M	1M C	06
1		
1M	1M C	06
1		
4N	4M (:06
""	"	
81	8M (206
"	""	
1		
		8M C