Seat No.:	

AB-104

April-2023

BCA, Sem.-VI

CC-308: Introduction to Data Mining & Data Warehouse

Time: 2:30 Hours] [Max. I				
Instruction	ons: (i) All questions in Section – I carry equal marks. (ii) Question – 5 in Section – II is compulsory.			
	Section – I			
1. (A) (B)		7		
	OR			
(A)	data.	7		
(B)	What is Data? Using examples, explain its various types.	7		
2. (A)	Which are the major features of a Data warehouse as defined by Willia H. Inmon?	m 7		
(B)	Explain typical operations carried out in OLAP as multidimensional data model. OR	7		
(A) (B)	Draw a proper diagram of a three tier Data warehousing architecture and explain. "Data cubes are n-dimensional." Explain it with 2-D, 3-D and 4-D data cubes.	. 7 7		
3. (A)	Which are the methods used to fill-in missing values for attributes in da cleaning?	7		
(B)	Using an example, explain the steps of Apriori algorithm for mining freque item-sets. OR	nt 7		
(1)				
(A)	noise.	7		
(B)	Explain in detail how singleton buckets / range buckets are used in Histogra	•		
	technique.	7		
4. (A)	Draw a decision tree and explain with an example how it is used for classification			
(B)	Explain the use of Data mining applications in Financial Data Analysis area. OR	7		
(A)	Explain a centroid based set-partitioning technique called K-Means in detail.	7		
(B)	"Science and Engineering Area make the most use of data mining techniques" Explain.	- 7		
AB-104	1 P.	.T.O.		

Section - II

	ver u	ne following MCQ's. : (Any Sev process is helpful in retrievi		from detabase for analysis
(i)	<u>(A)</u>	process is helpful in featievil Data cleaning	-	
	` ′	•	` '	Data integration
(::)	(C)	Data selection	\ /	Data transformation
(ii)	<u> </u>	labels for the group of data		
	` ′	Class	(B)	Object
(:::)	(C)	Instance	\ /	Dataset
(iii)		can be sub-categorized as A		
	` /	Passive learning	` /	Machine learning
·:\	` /	Unsupervised Learning	` /	Semi-supervised Learning
iv)		a cube has table, associa		
	` /	Dimension table	()	Fact table
	(C)	Association table	\ /	Cuboid table
(v)			e prov	ides Information from a historical
		pective.	(D)	77 1 41
	` /	Non-volatile	()	Volatile
<i>(</i> •)	` /	Time-variant	(D)	History-variant
(vi)		Oata cube presentation,	_	
	()	Base cuboid		Side cuboid
	(C)	1	(D)	Apex cuboid
vii)		a quality is concerned with		
	` ′	Accuracy	(B)	1
	` /	Timeliness	(D)	All of the above
(viii)		rule of association technique	e reflect	
	\ /	Confidence	(B)	Support
	()	Minimum-confidence	` /	Minimum-support
(ix)	To remove the non-frequent subset of items from item list, operat			
	-	formed.		
	` ′	Prune	(B)	Delete
	. ,	Remove		Outcast
` '		ch of the following predict cates	-	
	(A)	Test sets	(B)	Classifiers
	(C)	Tuple sets	(D)	Overfit sets
(xi)	step of classification process generates new data tuples as an output.			
	(A)	Learning	(B)	Supervised Learning
	(C)	Classification	(D)	Clustering
xii)	i) Loan payment prediction can be obtained through data mining of			
	(A)	Science and Engineering	(B)	Retail and Telecommunication
	(C)	Intrusion Detection	(D)	Financial Data Analysis

AB-104 2