Faculty of Engineering & Technology Eighth Semester B.E. (Computer Science) Examination DATA WAREHOUSING AND MINING (NEW)

Elective-IV

Sections-A & B

Time—Three Hours] [Maximum Marks—80
INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Answer THREE questions from Section A and THREE questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Assume suitable data wherever necessary.
- (5) Illustrate your answers wherever necessary with the help of neat diagrams.

SECTION-A

 (a) What are the several stages of past decision support systems which leads to failure or were not satisfactory?

7

(b) Distinguish between:

OPERATIONAL versus INFORMATIONAL SYSTEM. 6

(a) A Data Warehouse is an environment not a product.
 Discuss.

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							re en la contrattaciones (a.a.)
http://www.rtmnuonline.com	(b)	Differentiate between Data Warehouse and Data Mart. 4			7.		e short notes on : (any THREE) 13
							CONFORM DIMENSION
		What is Meta Data? States its type and spe significance.	ecial	http://www.rtmnuonline.com		(b)	SNAP SHOT AND TRANSACTION TABLE
			5			(c)	RAPID CHANGING DIMENSION
	(a)	What are the various data sources for the I	Data		8.	(d)	JUNK DIMENSION
	(b) I	Warehouse? How data loading takes place in Data Warehouse	5			(e)	FAMILY OF STARS.
			se?			-	Briefly explain multidimensional analysis. 5
			3				What is Hypercubes ? How do they apply in an
		Name any six different methods for information deli	very.	n n			OLAP system ? 5
		Explain the following terms with respect to busin dimensions:	nece	- E		(c)	Differentiate between MOLAP and ROLAP. 4
	(a)		iicss	1e.co	9.	(a)	Is the data warehouse a prerequisite for data mining?
		(i) Business metrics		Ĕ			How does the data warehouse help data mining?
		(ii) Dimension hierarchies					3
		(iii) Information package diagram.	6			(b)	How does the Memory Based Reasoning (MBR)
	(b)	Describe the outline for requirements defin	ition				technique work? What is the underlying principle?
	(0)	document.	7				4
http://www.rtmnuonline.com	Wri	Write short notes on:		-		(c)	Distinguish between OLAP and DATA MINING.
	(a)	STAR SCHEMA-FACT TABLE	3	http://www.rtmnuonlin			a application of Data Mining in : 13
	(b)	STAR SCHEMA-DIMENSION TABLE	3		10.	Give	e application of Data Mining in
	(c)	FACTLESS FACT TABLE	3			(a)	Retail Industry
	(d)	KEYS OF STAR SCHEMA	4			(b)	Telecommunications Industry
	(-)	SECTION—B (a) Describe Slowly Changing Dimensions (SCD). What		ē.		(c)	Banking and Finance.
	(a)						
		are its three types ? Explain.	6	В			
	(b)	What are the Aggregate Fact Tables? Why there is a need of Aggregate Fact Table? Illustrate different					
	17.67						~
		ways to Aggregate Fact Table.	7				3 2050
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