ROLL NO.

Code: AT19 Subject: DATA WAREHOUSING AND DATA M

AMIETE - ET (OLD SCHEME)

Time: 3 Hours | JUNE 2012 | Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.

-	y required data not explicitly given,	may be suitably assumed and stated.	-	
Q.1	Choose the correct or the best alternative in the following:			
a.	Which of the following is not a Data Mining Functionality?			
	(A) Association analysis(C) Classification & Prediction	(B) Cluster Analysis(D) Randomization		
b.	Which of the following is not an OLAP server?			
	(A) ROLAP (C) MOLAP	(B) DOLAP (D) HOLAP		
c.	Which of the following is a data smoothing technique?			
	(A) Histogram(C) Correlation	(B) Regression(D) Induction		
d.	Which of the following is not a basis for classification for an association rule?			
	(A) types of values(C) volume of data involved	(B) dimensions of data involved(D) levels of abstractions involved		
e.	In which of the following areas the data mining technique cannot be			

applied?

(A) Medical-diagnosis(C) Retail Industry

(B) Prediction in share market

(**D**) all of these

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f.	The generic following?	two-level data ware	ehouse architecture includes which of the	M.BOUNTY.COM	
	(B) Data tha	al-time updates.	numerous internal and external sources.	OH	
g.		varehouse architecture nnects other componen	e, the component interleaves nts.		
	(A) Metadat(C) Data ma		(B) Data cube(D) none of the above		
h. A star schema has what type of relationship between a table?			relationship between a dimension and fact		
	(A) Many-to (C) One-to-n	•	(B) One-to-one(D) All of the above		
i.	Which of the following is the extract process?				
	(B) Capturinsystem(C) Capturin	C) Capturing all of the data contained in various decision support system O) Capturing a subset of the data contained in various decision support			
j.		stores multidimensional aggregate information.			
	(A) Data cub (C) Both (A)		(B) Data Mart(D) None of the above		
	Answe	•	ns out of EIGHT Questions. carries 16 marks.	_	
Q.2		data warehouse ela	aborating its key features. How do the	· (9)	
	b. What are	the major features tha	at differentiate OLTP from OLAP?	(7)	
Q.3			ernal/unstructured data that pose problems rehouse? Describe an effective technique for		

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handling unstructured data.

AMIETE - IT (OLD SCHEME)

(9)

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Student Bounty.com b. Mean and standard deviation of the values for an attribute income are given as \$54,000 and \$16,000 respectively. Using z-score normalization transform a value of \$73,600 for income. **Q.4** a. Use diagram to explain the path of migration from corporate data model to a DSS. **(8)** b. Discuss in brief three data warehouse models-enterprise warehouse, data mart and the virtual warehouse. **(8)** a. Discuss the list of technological challenges includes in data migration 0.5 methodology. **(8)** b. Discuss in brief four levels in architected environment. **(8)** a. Briefly describe the three problems with naturally evolving architecture. **Q.6 (6)** b. Explain data transformation with following: (i) Smoothing (ii) Aggregation (iii) Generalization (iv) Normalization (v) Attribute construction (10)a. What do you mean by association rule mining? Explain constraint-based **Q.7** association mining. **(8)** b. What is the relationship between the data model and external data? **(8) Q.8** a. Explain how the data warehouse forms a basis for EIS. **(6)** b. Explain drill-down analysis and event mapping in context of EIS. (10)**Q.9** Write a short note on (Any **FOUR**): (i) Clustering (ii) Feedback loop Technique (iii) Archiving External Data (iv) Data Cube Technology (v) Criterion for comparing classification methods. (4×4)

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