Adikavi Nannaya University, Rajahmundry MCA IV Semester MCA -19403 Data Mining Concepts and Techniques Model Question Paper

Time: 3 Hours Max. Marks: 75

SECTION – A (4X15=60 Marks) Answer ALL Questions

1.	a) Explain with a neat diagram the three-tier architecture of a Data Warehouse b) Explain the OLAP operations in a Multidimensional data.	7M 8M
	Or	
	c) Why do we pre-process data? Explain different techniques in data cleaning, integration	
	and transformation	15M
2.	Q	10M
	 b) Mention different issues in Data Mining. 	5M
	Or	
	 c) Explain in detail how the data is measured differently in statistical descriptions d) Where can data mining be applied? Explain different domains of applications 	8M 7M
3.	 a) Explain FP-Growth Algorithm with an example. 	8M
	b) Explain AOI Algorithm.	7M
	Or	
	c) Explain Apriori property and explain the algorithm associated with it	8M
	d) How to generate Closed and Max patterns	7M
4.	a) What is the difference between classification and Prediction? How a decision tree	is
		10M
	b) Explain Support Vector Machines concept	5M
	Or	
	c) Explain Bayesian Classification Methods. How Classification by back propagation	ie
	obtained	7M
	 d) Explain k-means Clustering and compare that with k-medoids algorithm 	8M

SECTION – B (5X3=15 Marks) Answer any FIVE Questions

5. Write a Short note on

- a) DBSCAN Algorithm
- b) Tree Pruning
- c) Concept Description.
- d) Frequent Item sets using vertical data format
- e) Multilevel Association Rules
- f) Data Visualization
- g) Similarity and Dissimilarity of data
- h) Data Cube Technology