

<b>7E7033</b>	Roll No. _____	[Total No. of Pages : 3]
	<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;"><b>7E7033</b></div> <b>B.Tech. VII Semester (Main/Back) Examination, Dec. - 2015</b> <b>Computer Science &amp; Engineering</b> <b>7CS3A Data Mining &amp; Ware Housing</b> <b>CS, IT</b>	

**Time : 3 Hours**

**Maximum Marks : 80**  
**Min. Passing Marks : 24**

***Instructions to Candidates:***

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

**Unit - I**

1. a) What are the different phases of the knowledge discovery from database? (8)
- b) What do you mean by data mining? Describe it and differentiate between data ware house and data mining? (8)

**OR**

1. a) Explain discretization and Concept hierarchy in detail . Describe the various data reduction strategies? (10)
- b) What is data integration and Transformation? (6)

**Unit - II**

2. a) What are data mining association rules? Explain. (8)
- b) What do you mean by Data Generalization? Explain. (8)

OR

2. a) What are the different types of data bases? Explain them? (8)  
b) Describe any one association rules algorithm with example? (8)

Unit - III

3. a) Describe Neural Network Techniques for data mining ? Also Explain the relation between decision trees and classification rules? (8)  
b) What are advantages and disadvantages of decision tree approach over other approaches of data mining (8)

OR

3. a) What do you mean by Genetic Algorithm? How hypothesis testing and refinement task can be done using genetic algorithm. (8)  
b) Describe the various types of density based methods and grid based methods in detail? (8)

Unit - IV

4. a) What is data warehouse? How it is different from an operational database?(8)  
b) Explain the architecture of data ware house. (8)

OR

4. Write a short note on:-  
i) 3-Tier Architecture  
ii) Data Cubes  
iii) Multi dimensional and data model  
iv) Stars (4×4=16)

Unit - V

5. a) Differentiate between OLTP and OLAP? (6)
- b) What do you mean by Aggregation? And Explain different aggregate function? (10)

OR

5. a) Write a short note on:- (4×2=8)
- i) ROLAP
- ii) MOLAP
- b) Explain the testing terminologies in brief. (8)