Code: IT5T1

III B. Tech - I Semester – Regular Examinations - November 2014

DATA WARE HOUSING & DATA MINING (INFORMATION TECHNOLOGY)

| Duration: 3 hours | Marks: 5x14=70 |
|---|---------------------------------------|
| Answer any FIVE questions. Al | l questions carry equal marks |
| a) Define Data Mining? Explaid Data Mining Systems? | in in brief about the issues in 7 M |
| b) Why do we need Data Preprate about major tasks in Data Pr | - - |
| 2. a) What is a Data warehouse? Flake Schema? | Explain in brief about Snow 7 M |
| b) Explain in brief about Data | cube? 7 M |
| 3. a) Illustrate the different Scher base? | nas for Multi Dimensional Data 7 M |
| b) Describe the various description Data Mining? | tive statistical measures for 7 M |
| 4. a) Explain in brief about Aprio | ri Algorithm? 7 M |
| b) Explain in brief about Const Mining? | traint based Association 7 M |

| 5. a) What is Classification? Explain how clausing Decision Tree Induction? | essification is done 7 M |
|---|---|
| b) Explain in brief about Rule based Classi | ification method? 7 M |
| 6. What is K-means algorithm? Suppose the task is to cluster the following eight point clusters A ₁ (2,10) A ₂ (2,5) A ₃ (8,4) B ₁ (5 B ₃ (6,4) C ₁ (1,2) C ₂ (4,9). The distance function is Euclidean distainitially A ₁ , B ₁ ,C ₁ are assigned as the cerespectively. Use K means algorithms to i) The Three cluster centers after the execution and ii) The final Three clusters | nts in to three (,8) B ₂ (7,5) Ince. Suppose the of each cluster to show only |
| 7. a) What is Outlier? Explain in brief about 6 methods? | Outlier detection 7 M |
| b) Explain in brief about Grid based method | ods? 7 M |
| 8. a) Explain in brief about Mining Complex | Data types? 7 M |
| b) Explain in brief about the Application o | of Data mining for |

Intrusion detection?