Professional Masters in IT (PMIT-6307); Class Test-01; Marks-15; Time-30 Minutes

1. Discuss whether or not each of the following activities is a data mining task. If the answer is yes, 4
   then also specify which one of the task categories it will belong to:
   a. An image analyst obtains some new images and wants to automatically detect the number of distinct objects in the image. He does not have any prior information about these objects.
   b. By looking at a CT scan, a doctor wants to identify if a patient has cancer or not. There are a lot of labelled CT scans that the doctor will use for making the decision.
   c. Predicting the future stock price of a company using historical records.
   d. Monitoring the heart rate of a patient for abnormalities.

2. Write short note on following application in terms of goals and approaches: 5
   a. Loan Default Prediction
   b. Credit Card Fraud Detection

3. Briefly describe three data quality problems. 3

4. Is temperature an interval or ratio measurement statistically? Justify your answer. 3