

**M. SC. (COMPUTER SCIENCE) SEM – III (CHOICE BASED
CREDIT & GRADE SYSTEM) : WINTER - 2017
SUBJECT : ELECTIVE : a) SOFT COMPUTING & DATA MINING**

Day : Friday
Date : 10/11/2017

Time 03.00 PM TO 06.00 PM
Max. Marks : 60

W-2017-0831

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

Q.1 What is classification? What are the features of classification techniques? (15)
Explain Naïve Bayes classifier in detail

OR

What is data mining? Explain need of data mining. Also explain applications of data mining in Banking and Medical science sectors.

Q.2 A) Answer any **ONE** of the following: (08)
i) Explain K-means clustering algorithm.
ii) Explain social impacts of data mining.

B) Answer any **ONE** of the following: (07)
i) What is KDD? Explain steps of KDD.
ii) What is regression? Explain types of regression.

Q.3 Answer any **THREE** of the following: (15)
a) Differentiate between OLAP and OLTP.
b) Explain data warehousing architecture.
c) Explain FP growth algorithm.
d) Differentiate between supervised learning and unsupervised learning.
e) Explain limitations of Apriori algorithm.

Q.4 Write short notes on any **THREE** of the following: (15)
a) Star schema
b) Web mining
c) Data cleaning process
d) Association rule mining
e) Designing data marts