

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD -402 103**

Winter Semester Examination – December - 2018

Course: M. Tech (CE / CS / CS & IT / CS&E)

Sem.:- II

Subject with Subject Code:- Data Science [MTCE1201]

Marks: 60

Date:- 26/12/2018

Time:- 3 Hrs.

Instruction to students:

1. Attempt any five Questions to the following

2. If any data missing then assume suitable data if necessary indicate it clearly

- Q.1 a) Explain k-means & k-medoids give its pro & cons. (08)
b) What are different methods used in R to discover pattern in dataset? (04)
- Q.2 a) What is text mining? Write R language code for the following (08)
i. Convert text to lowercase
ii. Remove punctuations from text
iii. Removing stop word.
b) Explain simple regression with suitable example. (04)
- Q.3 a) Write a short notes on following. (08)
i. Co-relation & Co-variance
ii. Pearson Co-relation iii) Polychoric Co-relation
b) write a short notes on (04)
i. Multiple regression
ii. Multivariate regression
- Q.4 a) Write the use of following packages in R programming? (08)
i) + M & XML ii) MASS iii) Chemometrics iv) Corrgram & Hmisc
v) polycor vi) NbCluster vii) ggplot viii) kernlab.
b) Explain heterogeneous co-relation Matrix. (04)
- Q.5 a) What are different packages which provide visualization (08)
functionality? what are various parameter used by Map function in R.
b) Explain nearest neighbor algorithm of classification. (04)
- Q.6 a) What are the different models used in machine learning and explain (08)
anyone with suitable example.
b) What is data partitioning? Which one standard method used by for (04)
data partitioned.

*** End ***