

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,  
LONERE – RAIGAD – 402 103  
Winter Semester Examination – Dec – 2019**

Branch: M.Tech Electronics and Telecommunication

Semester: I

Subject: - Research Methodology (MTETE255D)

Marks: 60

Date: - 20/12/2019

Time: 3 Hrs.

**Instructions to the Students**

1. Each question carries 12 marks.
2. Attempt any five questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

- (Marks)
- Q.1.** Briefly describe the different steps involved in a research process? (12)
- Q.2.** How would you differentiate between simple random sampling and complex random sampling designs? Explain clearly giving examples. (12)
- Q.3.** How will you differentiate between descriptive and inferential statistics? Describe the important measures used to summarise the data. (12)
- Q.4.** Write a short note on sampling error and central limit theorem. (12)
- Q.5.** Explain the meaning of analysis of variance. Describe briefly the technique of analysis of variance for one way and two way classification. (12)
- Q.6.** What do you mean by multivariate analysis? Explain how it differ from bivariate analysis. (12)

Paper End