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

Summer Semester Examination, May 2018

Branch: M. Tech. Electronics (EE/ETE/ECE/CE)	Semester: II
Subject with Code: Research Methodology [MTECE255D/MTEEE255D/MTETE255D/MTCEE255D] Date: 23 / 05 / 2018	Marks: 60 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 4. If some part or parameter is noticed to be missing, you may appropriate and should mention it clearly.	necessary. priately assume it
<ul><li>Q.No.1 a.) Distinguish between Research methods and Research methodol</li><li>b.) Explain the significance of research.</li></ul>	ogy. (06) (06)
<ul><li>Q.No. 2 a.) Describe fully the techniques of defining a research problem.</li><li>b.) Explain, how the working hypotheses can be developed?</li></ul>	(06) (06)
Q.No. 3 a.) What are the parts of research design? Give your understan a good research design. Is single research design suitable in a studies? If not, why?	ding of (06)
b.) How to develop a Research Plan? Explain.	(06)
<ul><li>Q.No. 4 a.) Explain the steps of Simulation modeling.</li><li>b.) Explain the basic principles of experimental designs.</li></ul>	(06) (06)
<ul> <li>Q.No. 5 a.) Explain in brief different types of sample designs.</li> <li>b.) Calculate the Covariance between X and Y using short-cut may X: 65 66 67 68 69 70 71 72         <ul> <li>Y: 60 65 68 68 70 78 80 88</li> </ul> </li> </ul>	(06) ethod. (06)
<ul><li>Q.No. 6 a.) Explain in brief the layout of research report.</li><li>b.) Write short note on plagiarism.</li></ul>	(06) (06)

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