

2025

M.Sc. 1st Semester Examination

ELECTRONICS

Paper : ELCC403X1

[Research Methodology]

Full Marks : 25

Time : One Hour

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : 2×2=4

1. Define positivism and post-positivism approach in research. 1+1
2. What do you mean by Qualitative and Quantitative methods? 1+1
3. What is action research?
4. Explain the *i* 10 index.

P.T.O.

(2)

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. What do you mean by research? What are the differences between basic and applied research? $2+2$
6. Write down some key characteristics of research.
7. What is a thesis? Explain the format of thesis writing.
 $1+3$
8. Describe the applications of ICT in research.

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. With proper block diagram discuss key steps in research process.
10. (a) Differentiate between a seminar and a workshop.
(b) Describe what should and should not be done to maintain research ethics. $2+(3+3)$

Internal Assessment : 5 marks
