

M.Sc. (Electronics) (NEP Pattern) Semester-I
NEP-35 / PSCELT105 - Paper-V : Research Methodology

P. Pages : 2

Time : Three Hours



GUG/W/23/15093

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labelled diagrams wherever necessary.

Either:

1. a) What is mean by Research? State & explain importance of Scientific Research. 8
b) Explain how you can select and formulate the research? 8

OR

- c) What is a literature reviews? Explain why it is important in defining the research problem? 8
d) Describe research methods vs research methodology with suitable example. 8

Either:

2. a) Explain any four methods of research. 8
b) Describe: 8
i) Case Study method
ii) Brainstorming technique

OR

- c) Explain the difference between interview method and group discussion. 8
d) Describe sampling method and questionnaire method. 8

Either:

3. a) What is the principle of research design? Why it is needed? 8
b) Describe related to research design: 8
i) induction
ii) deduction

OR

- c) Explain classification of research design. 8
d) What are observations, facts and prediction? 8

Either:

4. a) Explain how you can write research report. **8**
b) Explain types and significance of report. **8**

OR

- c) What is meant by publication ethics? Explain its importance. **8**
d) Explain illustrations of figures, graph and tables in research paper. **8**
5. Solve the followings.
- a) Distinguish between research methods and methodology. **4**
b) Explain observation method and case study method. **4**
c) Give the features of good designing concepts relating to research design. **4**
d) Explain in short, the research publication ethics. **4**
