

Sl. No. of Question Paper: 1500-A

Unique Paper Code	:	1141704
Name of the Paper	:	Research Methodology
Name of the Course	:	B. Tech. Polymer Science
Semester	:	VII
Duration	:	3 Hours
Maximum Marks	:	75 Marks.

F-7

Instruction for candidates

(Write your Roll no. on the top immediately on receipt of the question paper.)
Attempt five questions in all. Question No. 1 is compulsory. Attempt all parts together.

1. (a) Write the name of two important search engines, by which research papers can be searched. 3
 (b) How to assign ACS references in a research paper? Give examples. 3
 (c) Discuss the role of computer in research. 3
 (d) Describe, in brief the layout of a research report, covering all relevant points. 3
 (e) What is Impact factor of a journal? Write the name of some national/international journals with impact factors. 3
 (f) What is the mode of approach of actual investigation? 3
 (g) What are the techniques involved in defining a research problem? 3
 (h) What is meant by abstraction of a research paper? 3
 (i) Write the name of three polymers science journals. And mention their reference patterns 3

2. (a) Give primary features of Patent Rights. 4
 (b) Briefly describe the different steps involved in a research process. 4
 (c) Discuss the characterization of materials by various spectroscopic techniques. 4

3. (a) Give primary features of Patent Rights. 4
 (b) Explain Conclusion of a research paper, what inferences you can draw from the results? 4
 (c) What are main steps to file a patent? Draw the diagram. 4

4. (a) What do you mean by thesis writing? Write the thesis writing Performa. 6
 (c) Define research and discuss the objectives of research in detail. 6

5. (a) What do you mean by 'Research problem Design'? What points should be taken into consideration by a researcher in Research problem design for any research project. 6
 (b) What is meant by scientific seminar? What are various stages of presenting a scientific seminar? 6

6. (a) Discuss factors for designing of a research problem? 6
 (b) What are the differences in between primary and secondary sources? Explain 6