

[This question paper contains 3 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **5659**

Unique Paper Code : 6093010015

Name of the Course : **B.Sc.(H) Polymer
Science**

Name of the Paper : Research Methodology
in Polymer Science

Semester : VI

Time : 3 Hours **Maximum Marks : 90**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
 - (b) Attempt any **five** questions in **all**. Question No. 1 is compulsory.
 - (c) Draw neat and labeled diagram where ever necessary.
1. (a) List the important features in selecting the research problems.

P.T.O.

- (b) What is Chemdraw ? Explain the important features of Chemdraw for polymer research.
 - (c) Explain the criteria for authorship in academic publications.
 - (d) What are the benefits of data sharing and reproducibility in research ?
 - (e) Write a note on predatory publishers.
 - (f) Compare the significance of publication in journal and conference proceeding. $5 \times 6 = 30$
2. (a) Differentiate reference book and encyclopaedia along with features and examples. 6
- (b) What is research proposal ? Write format for research proposal for individual and institution. 9
3. (a) Explain the significance of graphical data presentation using bar and pi-graph of research data. 9
- (b) List the measures used to ensure the integrity of research data of authors. 6

4. (a) Explain the importance of statistical tool in research selecting and using the research data. 9
- (b) Compare the editing and proof reading of a thesis with suitable example. 6
5. (a) Describe the role of peer review in ensuring publication ethics and improvement in research outcome. 8
- (b) What is reference management system ? Explain the features and use of Mendeley in reference management. 7
6. (a) What is patent ? Write the key stages in patent prosecution process with examples. 9
- (b) Explain the features and importance of google Scholar and web of science. 6
