



**SIDDHARTH INSTITUTE OF ENGINEERING AND TECHNOLOGY: PUTTUR  
(AUTONOMOUS)**

Siddharth Nagar, Narayanavanam Road – 517583

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code:** Research Methodology and IPR (18HS0823)

**Course & Branch:** M.Tech – Common to All

**Year & Sem:** I M.Tech & I-Sem

**Regulation:** R18

**UNIT-I**

1. What do you understand by term *Research Problem*? What are the objectives of *Research Problem*?
2. Explain different sources of research problem by giving suitable examples under source.
3. List and explain the characteristics of good research problem.
4. Elaborate on common errors committed by researchers in selecting the research problem.
5. Give a detailed account on various approaches adopted by researchers in solving problems stated by them.
6. How to do you go about formulating research problem? How do you organize your research work?
7. What is Hypothesis? What is the significance of formulating the hypothesis in research work?
8. List and elaborate various methods of collecting primary data.
9. What are the data presentation tools? Explain them in brief.
10. Explain with neat sketches various charts used in presentation of data.

**UNIT-II**

1. What are the various means of conducting literature survey in modern times?
2. Briefly explain the following:
  - a. Scopus Indexed Journals
  - b. Science Citation Index
  - c. Journal Impact Factor
  - d. h – Index
  - e. SJR
3. Discuss the importance of critical literature review and its uses in planning innovation research.
4. Explain various sources of obtaining data for the selected research problem.
5. What is plagiarism? How plagiarism can be detected using online tools?
6. What are common forms of plagiarisms in research reports?
7. How can you ensure that your research report is free from plagiarism before submission?
8. As a researcher what are the precautions to be taken to publish a plagiarism free report.
9. What is ethics in research? Why it is important?
10. Explain five principles of research ethics.

### UNIT-III

1. Give a detailed account on content of a research report.
2. Lucidly present the stages for preparation of a research report.
3. Explain essential features of report writing highlighting the importance and implication of research outcomes.
4. What are the items in a research report? Explain them in brief.
5. Discuss the guidelines of oral presentation of a research report.
6. What is oral presentation? What are merits and demerits of oral presentation?
7. Assume a research topic of your choice and give the complete format of its research report.
8. Discuss the items of introductory pages in detail.
9. List and discuss the items of main body of typical thesis.
10. Discuss the guidelines for preparing bibliography.

### UNIT-IV

1. What is a Patent? What are the criteria of patentability?
2. What is innovation? Elucidate various type of innovation.
3. Write short notes on the following:  
(a) Patents (b) Designs (c) Trade Marks (d) Copyright
4. Discuss *Breakthrough Innovation* and *Incremental Innovation* by quoting real time examples.
5. What kind of information is presented in a typical patent document?
6. What is a trademark? How to select a good trademark?
7. How can industrial designs be protected?
8. Describe briefly how the online patent data is organized.
9. Explain the requirements or precautions to be taken for a good trade mark.
10. Describe the structure and content of a patent document in general.

### UNIT-V

1. What types of inventions are not patentable in India?
2. What is a Geographical Indication? What is a “generic” geographical indication?
3. Why do geographical indications need protection? How are geographical indications protected?
4. What is Novelty Search? Why Novelty Search is important?
5. List significance of Novelty Search in research.
6. Why copy rights are preferred rather than patents in case of software?
7. Discuss the advantages and disadvantages of getting copy rights for software rather than patent.
8. What are the limitations of IP based protection for Traditional Knowledge?
9. List at least 10 geographical indications tagged products in India.
10. Explain how various countries worldwide organizing and maintaining patent database.

Prepared by: **C. SIVA KUMAR PRASAD**