



**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 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.

Engineering Mechanics Question Bank With Answers

Christian G. Meyer



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