

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

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**QUESTION BANK (DESCRIPTIVE)****Subject with Code: RM&IPR(20HS0823)****Course & Branch: M.Tech (Common to all)****Year & Sem: I&I****Regulation: R20****UNIT –I****Research Methodology**

1	What do you mean by research? Explain its significance in modern times.	[L1][CO1]	[12M]
2	What do you understand by term Research Problem? What are the objectives of Research Problem?	[L2][CO1]	[12M]
3	Explain the terms Fundamental Research, Basic Research, Applied Research and Industrial Research with suitable examples.	[L2][CO1]	[12M]
4	Explain different sources of research problem by giving suitable examples under source.	[L3][CO1]	[12M]
5	Elaborate on common errors committed by researchers in selecting the research problem.	[L3][CO1]	[12M]
6	Give a detailed account on various approaches adopted by researchers in solving problems stated by them.	[L4][CO1]	[12M]
7	Distinguish clearly Theoretical Research , Analytical Research and Experimental Research by giving suitable examples in your own branch of engineering/technology.	[L3][CO1]	[12M]
8	Consider your postgraduate project and explain how logically organized your work.	[L5][CO1]	[12M]
9	What is Hypothesis? What is the significance of formulating the hypothesis in research work?	[L2][CO1]	[12M]
10	Explain the following data analysis a) Descriptive Analysis b) Diagnostic Analysis and c) Predictive Analysis	[L2][CO1] [L2][CO1] [L2][CO1]	[4M] [4M] [4M]

**UNIT –2****Research Design and Data Collection:**

1	What is research design? Give a brief description of various research designs.	[L2][CO2]	[12M]
2	Literature review helps in identifying a suitable research problem. Comment.	[L4][CO2]	[12M]
3	What are the various means of conducting literature survey in modern times?	[L2][CO2]	[12M]
4	Give a detailed description on maintenance of ethics in research work.	[L3][CO2]	[12M]
5	“For any research to be successful it must be well designed.”Justify this statement.	[L5][CO2]	[12M]
6	Explain the significance of data collection in research. What are the various methods of data collection?	[L2][CO2]	[12M]
7	Define sampling. Write in brief about various sampling techniques.	[L2][CO2]	[12M]
8	How do you write a research question for a literature review? What are good topics for literature review?	[L3][CO2]	[12M]
9	Explain the role of ethics in research.	[L2][CO2]	[12M]
10	Briefly explain the ethical considerations in research.	[L2][CO2]	[12M]

**UNIT –3****Research Report Writing**

1	“Empirical research in India in particular creates so many problems for researchers.”State the problems that are usually faced by such researchers.	[L4][CO3]	[12M]
2	Discuss the importance of critical literature review and its uses in planning innovation research.	[L3][CO3]	[12M]
3	Explain essential features of report writing highlighting the importance and implication of research outcomes.	[L2][CO3]	[12M]
4	How do you go about formulating research problem? How do you organize your research work?	[L2][CO3]	[12M]
5	What is technical writing? What tools do technical writers use?	[L2][CO3]	[12M]
6	What is report writing? What is the significance of report writing?	[L2][CO3]	[12M]
7	How to write a research proposal? Explain the format of research proposal.	[L2][CO3]	[12M]
8	How do you prepare your project presentation? What are the basic elements of a research proposal?	[L4][CO3]	[12M]
9	How to write a research paper? Explain the contents in brief.	[L3][CO3]	[12M]
10	Analyze the criteria considered by a review committee in assessing a research proposal.	[L4][CO3]	[12M]

**UNIT –4****Nature of Intellectual Property**

1	What is innovation? Elucidate on various type of innovation.	[L2][CO4]	[12M]
2	Discuss <i>Radical Innovation</i> and <i>Incremental Innovation</i> by quoting real time examples.	[L3][CO4]	[12M]
3	Write short notes on (a) Patents (b) Copyrights (c)Trademarks (d)Designs	[L1][CO4]	[12M]
4	Discuss the significance of Intellectual Property rights in modern day context.	[L4][CO4]	[12M]
5	What is patent? How to obtain patent?	[L3][CO4]	[12M]
6	What is the difference between copyrights, trademarks and patents?	[L3][CO4]	[12M]
7	Explain the procedure for grants of patents.	[L2][CO4]	[12M]
8	What is technological research? Elucidate on innovation and Patenting.	[L2][CO4]	[12M]
9	Explain the significance of international cooperation on intellectual property.	[L2][CO4]	[12M]
10	Elaborate “Patent co-operationreaty” role on international patent Law.	[L3][CO4]	[12M]

**UNIT –5****Patent Rights**

1	What do you mean by patent right? What rights does a patent owner have?	[L2][CO5]	[12M]
2	What does it mean to “Licence a Patent” and why is it done?	[L3][CO5]	[12M]
3	How are patent rights enforced? Explain in detail.	[L3][CO5]	[12M]
4	Why should I care about patent information? Where can I find patent information?	[L4][CO5]	[12M]
5	Explain the geographical indications of patent Rights.	[L2][CO5]	[12M]
6	What are the new developments in IPR with respect to the administration of patent system? Explain in detail.	[L3][CO5]	[12M]
7	Give a brief account on the role of IITs in getting patent rights.	[L4][CO5]	[12M]
8	Analyze the usage of traditional knowledge in getting patents by quoting two case studies.	[L5][CO5]	[12M]
9	Elucidate the latest developments in IPR of Biological system.	[L3][CO5]	[12M]
10	Elaborate on the scope and significance Patent rights.	[L2][CO5]	[12M]

**PREPARED BY:Dr.S.K.Gurumoorthi**