SR	8R 8R 8R	8R 8R
	Code No: 5621AJ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVE M.Tech I Semester Examinations, Januar	RSITY HYDERABAD
8R.	RESEARCH METHODOLOGY AND (Thermal Engineering) Time: 3hrs	O IPR Max.Marks:75
	Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer B consists of 5 Units. Answer any one full question carries 10 marks and may have a, b, c as sub questions.	wer all questions in Part A. from each unit. Each question
8R	8R 8R 8RT-A8R	$\begin{cases} \bigcirc \\ 5 \times 5 \text{ Marks} = 25 \end{cases}$
8R	 1.a) What are the various sources of Research Problem? b) Why research ethics is important? Explain. c) Discuss briefly the effective way of writing the technical r d) What is Patent? Explain about copyright. e) Explain new developments in IPR system. 	[5] [5] [5] [5] [5]
	PART - B	$5 \times 10 \text{ Marks} = 50$
	2.a) Explain the importance of scope and objectives of research	h nrohlem
8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data an	alysis. [10]
8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data an 4.a) Explain the process of writing review of literature for any b) Critically examine the role of review committee in the res	alysis. [10] Business research. hearch process. [5+5]
8R 8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data and the second seco	alysis. [10] Business research. hearch process. [5+5]
8R 8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data and the process of writing review of literature for any b) Critically examine the role of review committee in the rest or the rest or the process of the rest of	alysis. [10] Business research. earch process. [5+5] ties of researchers, sponsors and
8R 8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data and the second seco	alysis. [10] Business research. Hearch process. [5+5] ties of researchers, sponsors and [10] [10]
8R 8R	b) Why data collection is important? Discuss. OR Elucidate any two multivariate techniques used in data an Explain the process of writing review of literature for any Critically examine the role of review committee in the resonant of the research assistants. Elucidate the different ethical dilemmas and responsibility research assistants. Explain the various types of research reports. OR Elucidate the format of writing a good research report. Explain procedure for grants of patents. OR Explain the international scenario on Patent. Explain about design and trade in intellectual property. 10.a) Elucidate the scope of Patent rights. What is transfer of technology? Discuss.	alysis. [10] Business research. tearch process. [5+5] ties of researchers, sponsors and [10] [10] [10]
8R 8R 8R	b) Why data collection is important? Discuss. OR 3. Elucidate any two multivariate techniques used in data an 4.a) Explain the process of writing review of literature for any b) Critically examine the role of review committee in the res OR 5. Elucidate the different ethical dilemmas and responsibility research assistants OR 7. Elucidate the format of writing a good research report. 8. Explain procedure for grants of patents. OR 9.a) Explain the international scenario on Patent. b) Explain about design and trade in intellectual property.	alysis. [10] Business research. tearch process. [5+5] ties of researchers, sponsors and [10] [10] [10] [10] [5+5]