Reg. No.												
----------	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code 12412

M.E. / M.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023

First Semester

M.E. - Big Data Analytics 20PBDMC101 - RESEARCH METHODOLOGY AND IPR

(Regulations 2020)

Duration: 3 Hours Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$

	Answer ALL Questions			
1.	What is Hypothesis?	Marks, K-Level, CO 2,K1,CO1		
2.	List out the data presentation tools.			
3.	What is ethics in research? Why it is important?			
4.	Define plagiarism.			
5.	List out the items of introductory pages.			
6.	Define content of a research report.			
7.	What is a Patent?	2,K1,CO4		
8.	How to select a good trademark?	2,K2,CO4		
9.	What is a Geographical Indication?	2,K1,CO5		
10.	What are the limitations of IP based protection for Traditional Knowledge?	2,K1,CO5		
11.	PART - B (5 × 13 = 65 Marks) Answer ALL Questions a) Define Research problem. List out the objectives of Research Problem? Explain different sources of research problem. OR	13,K2,CO1		

- b) Discuss in detail about investigation of solutions for research 13,K2,CO1 problem, data collection, analysis, interpretation.
- 13,K3,CO2 List out various methods of conducting literature survey and explain 12. a) them in detail with an example.

OR

b)	(i) Explain how plagiarism can be detected using online tools.	7,K3,CO2
	(ii) Discuss the five principles of research ethics.	6,K3,CO2

13. Explain the significance of a research report and narrate the various 13.K3.CO3 steps involved in writing a report. Explain in detail on Effective technical writing. 13,K3,CO3 Explain about different types of Intellectual property. 13,K2,CO4 14. Describe how monopoly nature of owner is controlled by Patent 13,K2,CO4 b) Trademark Organization? 13,K3,CO5 15. Explain the inventions that are patentable and not patentable in India. Discuss in detail about Licensing and transfer of technology in patent 13,K3,CO5 rights. PART - C $(1 \times 15 = 15 \text{ Marks})$ 15,K2,CO4 16. Derive an application for registration of different types of marks in PTO and an Indian IPR organization. Discuss in detail about the Procedure for grants of patents. 15.K3.CO4 b)