Q. Code:564990

Reg. No.

M.E / M.TECH. DEGREE EXAMINATIONS, MAY 2023

Second Semester

GR22251 – INTRODUCTION TO RESEARCH METHODOLOGY AND IPR

(Common to all branches)

(Regulation 2022)

TIME: 3 HOURS

MAX. MARKS: 100

CO

RBT

COURSE OUTCOMES CO 1	STATEMENT Critically evaluate any research article based upon research methodology.	rbt level 5
CO 2	Correlate the results of any research and develop hypothesis, concept, theory and model.	4
CO 3	Developing a research proposal, research presentation and review article in the field of engineering.	3
CO 4	Enumerate the importance of intellectual property right in research.	3
CO 5	Develop proposal for patent rights and identify the new developments in IPR	4

PART- A (20 x 2 = 40 Marks)

(Answer all Questions)

		CO	KB I LEVEL
1.	State Deductive Reasoning with example.	1	2
2.	Write the significance of effective literature survey.	1	2
3.	Justify the requirement of R&D for any organization is inevitable.	1	4
4.	Infer Self plagiarism.	1	4
5.	Explain in brief the stages in data processing.	2	2
6.	Write the importance of negative results.	2	2
7.	Is there any difference between hypothesis and scientific theory? Explain.	2	4
8.	List the types of Non-probability sampling.	2	2
9.	Give the structure for preparing a technical report.	3	3
10.	Elucidate steps in writing a research report.	3	2
11.	Elaborate a steps to calculate a impact factor for a particular journal.	3	3
12.	Differentiate h-index and i10-index.	3	2
13.	Distinguish IP, IPR and IPP.	4	2
14.	With example differentiate between these two terms Creativity and Innovation.	4	2
15.	How long does the right remain a right for the copyright and related rights?	4	2
16.	List the role of World Trade Organization.	4	2
17.	Explain about provisional and complete application with respect to patent.	5	3

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18.	Identify the law which protects the logos of companies? Give few examples.		5	3		
19.	List the patent office in India and its category.		5	2		
20.	Name at least 5 geographical indications tagged products in India.		5	2		
	PART- B (5 x 10 = 50 Marks)					
		Marks	CO	RBT LEVEL		
21. (a)	Discuss the importance of selecting research problem. (OR)	(10)	1	3		
(b)	Brief the advantages of data collection tools and mention any two tools used.	(10)	1	3		
22. (a)	Discuss the various types of result analysis and how will you apply them for various types of research?	(10)	2	3		
	(OR)					
(b)	Explain the importance of hypothesis. Discuss different types of hypothesis.	(10)	2	3		
23. (a)	Discuss the steps that a researcher needs to follow to formulate a good research report. Do the criteria become different for various reports? Justify.	(10)	3	3		
	(OR)	(10)	•	2		
(b)	Discuss in detail about the importance and content in the cover letter for journal publication with example.	(10)	3	3		
24. (a)	Explain the merits and demerits of patent and non-patent practices in the commercial business world.	(10)	4	4		
(OR)						
(b)	Differentiate between Trademark and design with example.	(10)	4	4		
25. (a)	Explain with flow diagram the stages of filing to grant of patent. (OR)	(10)	2	3		
(b)	Explain about the Scope of Patent Rights.	(10)	2	3		

PART- C (1 x 10 = 10 Marks)

(Q.No.26 is compulsory)

Marks CO RBT LEVEL
26. Tirupathi Laddu got a Geographical Index status what is the benefit out of it (10) 5 5 and explain methods to obtain Geographical Index of patent rights.
