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22RMI16

First Semester M.Tech. Degree Examination, Dec.2023/Jan.2024

Research Methodology and IPR

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. M : Marks , L: Bloom's level , C: Course outcomes.

Module - 1			M	L	C
Q.1	a.	Describe the different types of Research, clearly pointing out the difference between an experiment and a survey.	10	L2	CO1
	b.	List and explain four qualities of a good Research.	10	L1	CO1
OR					
Q.2	a.	With a neat diagram, describe the different steps involved in a Research process.	15	L2	CO1
	b.	List and explain five techniques involved in defining a Research problem.	5	L2	CO1
Module – 2					
Q.3	a.	Explain the meaning and significance of a Research design.	10	L2	CO2
	b.	List and explain the features of a good Research design.	10	L2	CO2
OR					
Q.4	a.	What are the steps involved to conduct literature review for research and explain each one briefly.	15	L2	CO2
	b.	Explain the research design in case of hypothesis – testing research studies.	5	L2	CO2
Module – 3					
Q.5	a.	What do you mean by ‘Sample Design’? What points should be taken into consideration by a Researcher in developing a sample design for the Research project?	10	L3	CO2
	b.	Mention the characteristics of good research sample design and brief about the different types of sample designs.	10	L2	CO2
OR					
Q.6	a.	Enumerate the different methods of collecting data. Which one is the most suitable for conducting enquiry regarding family welfare programme in India? Explain its merits and demerits.	10	L3	CO2
	b.	Brief about Research case study method and its limitations.	10	L3	CO2
Module – 4					
Q.7	a.	What is Hypothesis? What characteristics it must possess in order to be a good research hypothesis?	10	L2	CO3

	b.	Distinguish between the following : i) Simple hypothesis and Composite hypothesis. ii) Null hypothesis and Alternative hypothesis.	10	L3	CO3
OR					
Q.8	a.	What is Chi – Square test? Explain its significance in statistical analysis.	10	L1	CO3
	b.	State five conditions that should be satisfied before Chi – Square test can be applied.	10	L2	CO3
Module – 5					
Q.9	a.	Write a brief note on the ‘task of Interpretation’ in the context of Research Methodology.	10	L3	CO3
	b.	Describe the precautions that the researcher should take while interpreting his/her findings of research.	10	L3	CO3
OR					
Q.10	a.	Explain the following three main features of TRIPS. (<u>T</u> rade <u>R</u> elated aspects of <u>I</u> ntellectual <u>P</u> roperty <u>R</u> ights) : i) Standards. ii) Enforcement. iii) Dispute settlement.	10	L2	CO3
	b.	Write short notes on : i) Patent Cooperation Treaty (PCT). ii) World Intellectual Property Organisation (WIPO).	10	L2	CO3
