



Programme: B E – Common to all branches

Continuous Internal Assessment – I

TERM : 03/10/2024 to 25/01/2025	COURSE NAME: Research Methodology and Intellectual Property Rights (RM & IPR)
DATE : 29-11-2024 TIME: 3:00 to 04:00 PM	COURSE CODE : AL58
MAX MARKS: 30 Semester: 5 th .	PORTIONS : L1 to L14



Mobile Phones are banned

Instructions to Candidates: **Answer any two full questions**

Marks: 15x2=30

Q. NO	Questions	Blooms Levels	CO	Marks
1.a	Briefly explain the different types of research.	L2	CO1	6
b	Define Independent variable, Dependent variable, Extraneous variable, Continuous variable and Discrete variables.	L1	CO 2	5
c	Analyse and list out the key differences between engineering research and research in other fields	L3	CO 1	4
2. a	Why is ethics important in research, and what are some key ethical considerations researchers should keep in mind?	L2	CO 1	6
b	In a 3x2x2 factorial design that examines the effects of three factors—type of therapy (Cognitive Behavioral Therapy, Psychodynamic Therapy, and Humanistic Therapy), duration of therapy (short vs. long), and therapist gender (male vs. female)—list all the possible combinations of these factors.	L3	CO 2	6
c	Assume you and your team members are working on a research domain and you are supposed to come up with a suitable title for the project. List out the things you need to consider for framing title for your project.	L3	CO 1	3
3. a	List and explain three main functions of citation.	L2	CO 1	6
b	Briefly explain a randomized block design. Design or sketch a randomized block design to study the effect of three new fertilizers (F1, F2, and F3) on three different crops: rice, wheat, and jowar with yield as the outcome.	L3	CO 2	6
c	Compare Critical and Creative reading.	L2	CO 1	3

* L1 – Remember, L2 – Understand, L3- Apply, L4- Analyze, L5-Evaluate, L6-Create