Reg. No.						

Question Paper Code

11582

M.E. - DEGREE EXAMINATIONS, NOV/DEC 2022

Third Semester

M.E. - CAD/CAM

20PCDPC301 - RESEARCH METHODOLOGY

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

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

Answer ALL Questions

1.	Enumerate the motivation factors for research.	Marks, K-Level, CO 2,K3,CO1
2.	Illustrate the types of research.	2,K3,CO1
		2, K2,CO2
3.	Describe the purpose of literature review.	2, K3,CO2
4.	Illustrate the characteristics of a good sample design.	
5.	List the sources of errors in measurement.	2, K1,CO3
6.	Define primary data.	2, K1,CO3
7.	Write the limitations of test of hypothesis.	2, K1,CO4
8.	How To Convert Chi-Square Into Phi Coefficient.	2, K1,CO4
9.	State the layout of report writing.	2, K1,CO5
10.	What is oral presentation?	2, K1,CO5
	PART - B (5 × 13 = 65 Marks) Answer ALL Questions	

Answer ALL Questions

11. a) Evaluate the techniques involved in defining the problem.

13,K5,CO1

13,K2,C01

OR

b) Discuss the various methods of collecting the data for research process.

12. a) Analyze the types of review articles and its role in report writing with 13,K4,CO2 an example.

OR

b) Categorize types of research designs.

13,K4,CO2

13. a) Explain how questionnaire can be used a tool for data collection. 13,K1,CO3 Mention its advantages and disadvantages.

OR

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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	b)	Explain the technique of developing measurement tools.	13,K1,CO3
14.	a)	Demonstrate with an example YATES correction in Chi-Square Test. OR	13,K4,CO4
	b)	Articulate the test procedure for hypothesis testing for comparing two related samples.	13,K4,CO4
15.	a)	Examine the different steps in report writing. OR	13,K4,CO5
	b)	Analyze the need and techniques of interpretation.	13,K4,CO5
		PART - $C(1 \times 15 = 15 \text{ Marks})$	

Analyze the various problems encountered by the researchers in India. 15,K4,COI 16. a) OR

b) Construct the precautionary steps to be taken for writing a research 15,K4,CO5 report.