	[]	Reg. No.]
	Question Paper Co		12263									
	M.E. / M.Tech DEGREE EXA	MINATI	[0]	NS, I	NOV	//I	DEC	202	23			
	Third S	Semester										
	M.E. - C A	D/CAM										
	20PCDPC301 - RESEAR (Regulation)		H	ODC	DLO	GY	7					
Duration: 3 Hours						l	Max	Ma	arks	: 100)	
	PART - A (10 × Answer ALI			ks)								
1.	List the criteria essential for conducting	-		earcl	h.					K-Le	arks, wel, 1,CC	<i>C0</i>
2.	State the significance of defining a resea									2,K	1,CC)]
3.	Classify the types of literature review.	-								2,K	2,CC)2
4.	State the basic principles of experimenta	al designs.								2,K	1,CC)2
5.	Enumerate essential scaling techniques.									2,K	2,CC)3
6.	Specify various methods for collecting p	primary da	ita.							2,K	2,CC)3
7.	Outline the limitations of hypothesis tes	ting.								2,K	2,CC)4
8.	How to convert Chi-Square into Phi Co	efficient.								2,K	2,CC)4
9.	Highlight techniques utilized in data inter-	erpretation	1.							2,K	2,CC)5
10.	Define oral presentation and its key char	racteristic	s.							2,K	1,CC)5

PART - B $(5 \times 13 = 65 \text{ Marks})$

Answer ALL Questions

11. a) Summarize the key steps involved in the preparation of a thesis, ^{13,K2,CO1} outlining the sequential process from inception to completion.

OR

- b) Elaborate in detail the distinct types of sample designs, elucidating ^{13,K2,CO1} their individual characteristics and applications in research studies.
- 12. a) Describe the various categories of review articles, providing an ^{13,K2,CO2} illustrative example for each to enhance understanding.

OR

- b) Outline the fundamental principle underlying experimental design, ^{13,K2,CO2} emphasizing its core concept and significance in research methodology.
- 13. a) Write a short notes on
(i) Errors in measurement.6,K2,C03(ii) Developing a theoretical and conceptual framework.7,K2,C03

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 12263

OR

- b) Describe the technique of developing measurement tools. *13,K2,CO3*
- 14. a) Provide a detailed account of the procedural steps involved in ^{13,K3,CO4} hypothesis testing for the comparison of two related samples.

OR

- b) Describe the sequential steps in conducting a Chi-Square Test, ^{13,K3,CO4} elucidating the key stages involved in this statistical analysis method.
- 15. a) What is interpretation? Why it is needed and explain the various ^{13,K2,CO5} techniques followed in interpretation.

OR

b) What are the precautions to be followed in writing a research report ^{13,K2,CO5} Provide a comprehensive explanation of the structure and organization of a research report.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Assess the various problems encountered by the researcher in India. *15,K5,C01*

OR

b) Evaluate the paramount importance of data collection in the research ^{15,K5,CO3} process, scrutinizing its integral role. Subsequently, conduct a detailed analysis of the importance of both primary and secondary data, delineating their distinctive attributes and the nuanced impact each holds on research outcomes.