Reg. No.																
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Question Paper Code

13067

M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

Third Semester

M.E. - CAD / CAM

20PCDPC301 - RESEARCH METHODOLOGY

Regulations - 2020

Duration: 3 Hours Max. M					0			
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions				Marks K- CO				
1.	Sun	nmarize the objectives of research.	2	K2	CO1			
2.	Des	cribe the necessity of defining a research problem.	2	<i>K1</i>	CO1			
3.	Elal	porate the purpose of literature review.	2	K2	CO4			
4.	List	the types of research designs.	2	K1	CO4			
5.	5. Elaborate the term 'Sample Design'.							
6.	Giv	e any 4 advantages of Case study method.	2	K1	CO3			
7.	List	out the important limitations of tests of hypotheses.	2	K1	CO5			
8.		e the difference between a chi-square test for independence and a chi- are test for goodness of fit.	2		CO5			
9.	9. What is interpretation in the context of research?							
10.	Exp line	plain how visual representation of data aid in a research report in few s.	2	K2	CO2			
PART - B (5 × 13 = 65 Marks) Answer ALL Questions								
11.	a)	Explain the various types of research in detail with suitable examples. OR	13	K2	CO1			
	b)	What is a Research Problem? Elaborate it with a suitable example.	13	K2	CO1			
12.	a)	Explain in detail the different types of review articles with examples. OR	13	K2	CO4			
	b)	Explain about any three important Experimental Designs.	13	K2	CO4			
13.	a)	Discuss about the points that should be taken into consideration by a researcher in developing a sample design for this research project.	13	K2	CO3			

	b)	Enumerate the different methods of collecting data.	13	K2	CO3				
14.	a)	Explain the Characteristics of hypothesis in detail.	13	K2	CO5				
OR									
	b)	What is Chi-square test? Explain its significance in statistical analysis.	13	K2	CO5				
15.	a)	Discuss various techniques of interpretation used in research.	13	K2	CO2				
		OR							
	b)	Explain how to effectively present research findings in the results section of a report.	13	K2	CO2				
$PART - C (1 \times 15 = 15 Marks)$									
16.	a)	Discuss in details about the various problems encountered by the researchers in India.	15	K2	CO1				
		OR							

b) Discuss in detail about Research Process and the steps in it.

15 K2 CO1