Question Paper Code

12770

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Third Semester

M.E - CAD/CAM

20PCDPC301 - RESEARCH METHODOLOGY

Regulations - 2020

Du	ration: 3 Hours	Max. Marks: 100
	PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions	Marks K – CO
1.	List the objectives of research.	2 K1 CO1
2.	State the necessity of defining research problems.	2 K1 CO1
3.	What are the main elements in literature review?	2 K1 CO2
4.	Explain theoretical framework in short.	2 K2 CO2
5.	Narrate the types of measurement scales.	2 K2 CO3
6.	Define observation method.	2 K1 CO3
7.	What is hypothesis?	2 K1 CO4
8.	What is Chi-square text?	2 K1 CO4
9.	Define interpretation.	2 K1 CO5
10.	What is oral presentation?	2 K1 CO5
	PART - B (5 × 13 = 65 Marks) Answer ALL Questions	
11.	a) Enumerate the techniques involved in defining the problem. OR	13 K2 CO1
	b) Explain the process of preparation of thesis.	13 K2 CO1
12.	a) Show the steps involved in literature review process. OR	13 K2 CO2
	b) Explain the different types of research designs.	13 K2 CO2
13.	a) Explain the case study method in detail. OR	13 K2 CO3
	b) Illustrate the important methods of collecting data.	13 K2 CO3
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14. a) Explain the Chi-Square Test as a test of goodness of fit.

13 K2 CO4

OR

- b) Explain in detail the test procedure for hypothesis testing of means. 13 K2 CO4
- 15. a) Narrate the precautionary steps to be taken for writing research report. 13 K2 CO5

Extend your understanding in various types of report.

13 K2 CO5

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

b)

16. a) Enumerate the various problems encountered by the researcher in 15 K2 CO1 India.

OR

b) What do you mean by the power of a hypothesis test? How can it be 15 K2 CO4 measured? Describe and illustrate by an example.