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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII(NEW) EXAMINATION - SUMMER 2019

Subject Code:2180410	Date:13/05/2019

Subject Name:Research Methodology

Time:10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Define the term "Research". What are its objectives? What is 'sample design'? Explain Simple random sampling.	03 04
	(c)	Discuss the process of Research giving proper diagram.	07
Q.2	(a)	Under what circumstances would you recommend a probability sample and stratified sample?	03
	(b)	Explain 'Bibliography and its importance' in context of research report. Narrate about 'Documentation' in the context of a research report.	04 07
	(c)	OR Why probability sampling is generally preferred in comparison to non-	07
Q.3	(a)	probability sampling? Explain the procedure of selecting a simple random sample.	
~	(b)	Explain the contents covered under research layout. "A systematic bias results from errors in the sampling procedures". What do you mean by such a systematic bias?	03 04
	(c)	"Interpretation is an art of drawing inferences, depending upon the skill of the researcher". Justify the statement.	07
		OR	
Q.3	(a)	Enlist the different forms in which a research work may be reported.	03
	(b)	Explain type I and type II error while executing hypothesis.	04
	(c)	Enlist non-parametric tests and describe any 2 of them.	07
Q.4	(a)	Write a brief note on importance of statistical data handling in taking scientific decisions.	03
	(b)	What are parametric test?	04
	(c)	Write about chi-square and t-test.	07
		OR	٠,
Q.4	(a)	What is research problem? How to define it properly?	03
	(b)	Explain and illustrate the term research hypothesis.	04
	(c)	"The task of defining the research problem follows a sequential nattorn"	07



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Q.5	(a)	What is essentially required in a good questionnaire?	03
	(b)	How does case study method differ from survey method?	04
	(c)	Compare survey and experiment.	07
	3.7	OR	
Q.5	(a)	What are criteria for a good research?	03
	(b)	Explain layout of a report or thesis.	04
	(c)	Enlist different methods of collecting data. Explain any one with its merits	07
		and demerits.	

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