C.U.SHAH UNIVERSITY Summer Examination-2018

Subject Name : Research Methodology

Subject Code : 5TE02RSM1		Branch: M.Tech (All)	
Semester : 2	Date : 23/04/2018	Time : 10:30 To 1:30	Marks : 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

		SECTION – I	
Q-1		Attempt the following questions	(07)
	a.	Define 'research design'.	
	b.	Discuss the significance of research.	
	c.	What do you mean by peer reviewed and indexed journal?	
	d.	What is Plagiarism?	
	e.	Justify the need of a hypothesis in research.	
	f.	Enlist various types of research.	
	g.	Define research observation.	
Q-2	Attempt all the questions.	(14)	
-	a)	Compare in detail the characteristics of Qualitative and Quantitative research	
		design methods.	
	b)	Discuss important considerations for selecting a research problem.	
		OR	
Q-2		Attempt all the questions.	(14)
	a)	Define Accuracy, reliability, reproducibility, sensitivity in connection with the	
		experiments in research.	
	b)	Write a note on 'Research ethics".	
Q-3		Attempt all the questions.	(14)
C	a)	What is Literature Review? What is the importance of literature review in	
	,	research?	
	b)	Explain 'Research Methods' and 'Research Methodology' in detail	
		OR	
Q-3 a		Attempt all the questions.	(14)
	a)	Explain the statistical methods for testing and evaluation.	

b) How to identify research gaps? Explain various steps in formulation of a research problem.



		SECTION II	
Q-4		Attempt the following questions.	(07)
	a.	What is 'Copy Right'?	
	b.	Enlist the quality indices of research publications.	
	c.	What is null hypothesis?	
	d.	What do you mean by 'Patent'?	
	e.	What do you mean by 'Trademark'?	
	f.	Enlist inherited qualities of a researcher.	
	g.	What is 'Industrial designs'?	
Q-5		Attempt all the questions.	(14)
	a)	What are the steps involved and needed in a research process?	
	b)	Differentiate between experimental research and survey research.	
		OR	
Q-5		Attempt all the questions.	(14)
	a)	Enlist the structure and components of thesis and reports.	
	b)	What are basic research observation methods? Explain any two.	
Q-6		Attempt all the questions.	(14)
	a)	How to develop a theoretical models and framework for the purpose of research? Discuss in detail.	
	b)	Define research approach. Discuss various research approaches along with their significance.	
		OR	
Q-6		Attempt all the questions.	
	a)	What are the different types of errors in Research? Discuss in detail.	

b) What is the importance of publishing good research? What are the measurements to assess quality of research?

