Exam Seat No:	Enrollment No:	
	C.U.SHAH UNIVERSITY	
C 1: . C 1 FM	Wadhwan City E02RSM1 Summer Examination-2014 Date: 23/06/2014	
Subject Code :5TE02RSM1 Summer Examination-2014 Date Subject Name: Research Methodology		
	:- M.Tech(CE,MECH,EC)/II Time:02:00 To 5:00	)
Instructions:-		
	nestions of both sections in same answer book / Supplementary	
	nmable calculator & any other electronic instrument is prohibited. ritten on main answer Book are strictly to be obeyed.	
	rams & figures (If necessary) at right places	
(5) Assume suitab	le & Perfect data if needed	
	SECTION-I	
_	all questions.	<b>(07)</b>
	Enlist various types of research.	
	Enlist major characteristics of research.	
	Enlist inherited qualities of a researcher.	
	Define 'research design'.	
	Discuss the significance of research.	
f)	Justify the need of a hypothesis in research.	
g)	Differentiate the explanatory and exploratory researches.	
Q.2. Attempt	all questions.	
a)	Briefly describe the steps involved and needed in a research process.	(5)
b)	Define research approach. Why is it needed? Describe various research	
	approaches.	(5)
c)	'Literature review is the basic necessity of a research' justify.	(4)
	OR	
a)	Briefly describe at least five considerations in selecting a research problem	ı. (5)
b)	Explain various steps in formulation of a research problem.	(5)
c)	Discuss how to develop a theoretical framework for the purpose of research	h. (4)
Q.3. Attempt	all questions.	
a)	Briefly describe the steps involved and needed in a research process.	(7)
b)	Define research observation. What are basic observation methods?	
	Explain any two.	(7)

OR

a) Compare the characteristics and theories of qualitative and Quantitative research

b) Research gap identification is pivotal to defining any research problem.

design methods.

How?

(7)

(7)

## **SECTION-II**

Q.1. Attempt	all questions.	<b>(07)</b>
a)	Define the following terms in connection to research:	
	<ul> <li>Accuracy</li> </ul>	
	• Reliability	
	• Sensitivity	
	• Plagiarism	
b)	Enlist the quality indices of research publications.	
c)	What is importance of acknowledgments in a research publication?	
d)	Write your view for getting a research patented and justify the same.	
Q.2. Attempt	all questions.	
a)	Write a short note on 'Research ethics'.	(5)
	Briefly describe the structure and components of thesis and reports.	(5)
c)	Discuss the Fundamental concept of Trademark. Use suitable example.	(4)
	OR	
a)	Briefly describe the issues and considerations related to plagiarism in cont	
	research.	(5)
	Explain the statistical methods for testing and evaluation.	(5)
c)	Give examples for 'how to write references' for journal and conference	
	publications.	(4)
Q.3. Attempt	t all questions.	
a)	Briefly describe the steps involved and needed in an effective oral present a research.	
<b>b</b> )		(7)
U)	Define the terminology 'copy right'. What are its basic characteristics and effects? Explain.	
	OR	(7)
a)	What do you mean by reproducibility in a research work? Explain	for the
	following research objective.	(7)
	"Within minutes of the government announcing an increase in railway po	assenger
	and freight tariffs, some TV channels were repeating visuals from last S	Saturday
	when Prime Minister talked about "bitter medicine" to rescue the	faltering
	economy, even at the cost of his party's popularity. Economists reckon	that the
	statements by the PM and his ministers, along with Friday's hike, should	l be seen
	as pointers to some tough decisions in first budget as finance minister."	
b)	'Industrial research and design' is being encouraged as a policy for standa	rd
	research. How?	(7)

\*\*\*\*\*23\*\*\*14\*\*\*\*S