	Enrollmo	ent No:				
		C.U.SHA	H UNIVERSITY			
	Winter Examination-2018					
	Subject I	Name: Research Methodolog	y			
	Subject (	Code: 4SC05RMD1	Branch: B.Sc. (Microbiology)			
	Semester	r: 5 Date: 30/11/201	8 Time: 10:30 To 01:30 Marks: 70			
	(2) I (3) I	Use of Programmable calculato				
Q-1		Attempt the following quest	tions:	(14)		
	a)	Define research.				
	<b>b</b> )	Define data analysis.				
	<b>c</b> )	Define sampling.				
	<b>d</b> )	Define hypothesis.				
	e) f)	Write the first step of research Name of the open source soft	•			
	g)	Define area sampling.	wate.			
	<b>h</b> )	The data of research is qualita	ative. True/False			
	i)	Survey research studies popu				
	<b>j</b> )	Research is not a process. Tru				
	k) l)	Observation is the method of The research is always explor	research. True/False ring new knowledge. True/False			
	m)	Researches lead to discovery.				
	n)		statement or question form. True/False			
		four questions from Q-2 to Q	-8			
Q-2		Attempt all questions		<b>(14)</b>		
	(a)	describe the different types of	search methodology? Explain its significance and	<b>(7</b> )		
	<b>(b)</b>	Enumerate the different meth		<b>(7</b> )		
Q-3		Attempt all questions		(14)		
	(a)	Describe the important research study.	rch designs used in experimental hypothesis testing	<b>(7</b> )		
	<b>(b)</b>	•	n sample design and explain various types of sample	(7)		



**Q-4** 

(a)

**(b)** 

**(14)** 

**(7)** 

**(7)** 

Q-5		Attempt all questions	(14)	
	(a)	Critically discuss the problem faced by a researcher in collecting data for conducting research	<b>(7</b> )	
	<b>(b)</b>	Discuss the importance of statistical presentation of data in research	<b>(7</b> )	
Q-6		Attempt all questions	(14)	
	(a)	Define the terms- questionnaire and interview. Differentiate between questionnaire and interview as tools of data in research.	<b>(7</b> )	
	<b>(b)</b>	Write a brief note on a case study method.	<b>(7</b> )	
Q-7		Attempt all questions	(14)	
	(a)	Discuss the objectives and importance of hypothesis in research.	<b>(7)</b>	
	<b>(b)</b>	Distinguish between an experiment and survey. Explain the survey method of research in detail		
Q-8		Attempt all questions	(14)	
	(a)	Briefly describe the different steps involved in a research process.		
	<b>(b)</b>	Describe in detail the techniques of defining a research problem.	<b>(7</b> )	

