Enrollment No: _____   Exam Seat No: _____

C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name: Research Methodology

Subject Code: 4SC05RMD1   **Branch: B.Sc (Microbiology)**

Semester: 5   **Date: 21/03/2018**   **Time: 10:30 To 01:30**   **Marks: 70**

Instructions:
   (1) Use of Programmable calculator & 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.

Q-1   Attempt the following questions: **(14)**

   a) Explain Meta-analysis
   b) Explain the term Survey
   c) Explain Co Relational research
   d) Write one advantage of primary data collection
   e) Define Sequential sampling.
   f) Define Validity.
   g) Define Reliability
   h) Experience survey is one of the methods of research design. (True/False).
   i) A document that describes one's research experiences, interests, and plans is known as………….
   j) True or false "Good research is replicable"
   k) True or false" Research hypotheses are important since it does not provide the focal point for research"
   l) Define Data
   m) Good research should be ……………..(empirical/asymmetric/linear)
   n) …………….sampling also known as purposive or non-probability sampling. (deliberate/nondeliberate/direct/indirect)

Attempt any four questions from Q-2 to Q-8

Q-2   Attempt all questions   **(14)**
   a) Explain the problems associated with research in India.   **(7)**
   b) Explain the steps of hypothesis development.   **(7)**

Q-3   Attempt all questions   **(14)**
   a) What is research design? Explain the MAXMINCON Principle of research design.   **(7)**
   b) Write a note on Technique for defining the research problem   **(7)**

Q-4		**Attempt all questions**	**(14)**
	a)	Write a note on Importance of Literature Survey	**(7)**
	b)	Discuss Sampling in research	**(7)**

Q-5		**Attempt all questions**	**(14)**
	a)	What do you mean by secondary data? Explain various sources of secondary data collection	**(7)**
	b)	Write a note on Qualities of a good research paper.	**(7)**

Q-6		**Attempt all questions**	**(14)**
	a)	Write a note on Power point presentation	**(7)**
	b)	Describe different stages in research process.	**(7)**

Q-7		**Attempt all questions**	**(14)**
	a)	What is applied research? How is it different from basic research? Support your answer with suitable example.	**(7)**
	b)	Discuss use of computers in research	**(7)**

Q-8

What are the various methods of processing and presentation of data in experimental design? Support your answer with suitable illustrations. **(14)**