

# C.U.SHAH UNIVERSITY

## Winter Examination-2015

**Subject Name: Research Methodology**

**Subject Code: 4SC05RMD1**

**Branch: B.Sc. (Microbiology)**

**Semester: 5 Date :4/12/2015 Time :2:30 To 5:30**

**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) A systematic method that takes data from a number of independent studies and integrates them, using statistical analysis is known as.....
- b) Define Validity.
- c) Rreproducibility of observed values is known as.....
- d) Write one advantage of primary data collection.
- e) What is Co-relational research?
- f) A document that describes one's research experiences, interests, and plans is known as.....
- g) Write one disadvantage of secondary data collection.
- h) t- test is an example of..... Test. (parametric/non parametric).
- i) Personal interview is an example of .....data collection.
- j) What is applied research?
- k) True or false-  
"Good research is replicable"
- l) True or false-  
"Research hypotheses are important since it does not provide the focal point for research"
- m) True or False-  
"Generally, the design which minimizes bias and maximizes the reliability of the data collected and analyzed is considered a good design"



- n) If one variable depends upon or is a consequence of the other variable, it is termed as a .....variable.

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

- Q-2                    Attempt all questions**
- a                    Explain the steps of hypothesis development.                    7
- b                    Why good research should be systematic and logical? Explain it with suitable example.                    7
- 
- Q-3                    Attempt all questions**
- a.                    Enlist Qualities of a good research.                    7
- b.                    Discuss Sampling in research                    7
- 
- Q-4                    What do you mean by qualitative and quantitative research? Explain the difference between qualitative and quantitative research.                    (7+7)**
- 
- Q-5                    Attempt all questions**
- a.                    Explain various dimensions of research.                    7
- b.                    Explain the role and importance of literature survey in experimental research.                    7
- 
- Q-6                    Attempt all questions**
- a.                    Explain Types of research design                    7
- b.                    Discuss Use of computers in research                    7
- 
- Q-7                    Attempt all questions**
- a.                    What is data analysis? Explain various methods used for data maintenance.                    2+5
- b.                    Briefly explain different problems associated with research in India.                    7
- 
- Q-8                    Explain the following-**
- a.                    What do you mean by secondary data? Explain various sources of secondary data collection.                    2+5
- b.                    Describe different stages in research process.                    7

