

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name : Research Methodology

Subject Code : 4SC05RMD1

Branch: B.Sc.(Microbiology)

Semester : 5

Date : 25/04/2016

Time : 02:30 To 05:30

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.
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Q-1

Attempt the following questions:

(1x14=14)

- a) Reproducibility of observed values is known as reliability. (True/False)
- b) Choose the correct word-
Good research should be(empirical/asymmetric/linear)
- c) Choose the correct word-
.....sampling also known as purposive or non-probability sampling.
(deliberate/nondeliberate/direct/indirect)
- d) In judgment sampling the researcher's judgment is not used for selecting items which he considers as representative of the population. (True/False)
- e) If the population from which a sample is to be drawn does not constitute a homogeneous group, stratified sampling technique is applied. (True/False)
- f) Choose the correct word-
.....sampling involves grouping the population and then selecting the groups rather than individual elements for inclusion in the sample. (cluster, non cluster, random, indirect)
- g) Define Sequential sampling.
- h) A good design does often characterized by adjectives like flexible, appropriate, efficient, and economical. (True/False)
- i) If one variable is not depend on the other variable, it is termed as avariable.
- j) In experimental researches, the term 'control' is used to refer to restrain experimental conditions (True/False).
- k) Experience survey is one of the methods of research design. (True/False).
- l) What is principle of replication?



- m) Write two responses of shift bias.
- n) Write two sources of secondary data collection.

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

Q-2	Attempt all questions	
a	Explain the basic principles of experimental designs.	7
b	What are various methods used for secondary data collection?	7
Q-3	Write notes on-	
a.	Qualities of a good research paper.	7
b.	Role of internet in modern research	7
Q-4	What are the various methods of processing and presentation of data in experimental design? Support your answer with suitable illustrations.	(14)
Q-5	Attempt all questions	
a.	What is data? What is the role of data analysis in research?	2+5
b.	Briefly explain the research process.	7
Q-6	Write notes on-	
a.	Literature survey	7
b.	Power point presentation	7
Q-7	Attempt all questions	
a.	Explain the importance of methodology in research design.	7
b.	Comment on necessity of defining the problem	7
Q-8	Explain the following-	
a.	What are the main problems associated with research in India.	7
b.	What is applied research? How is it different from basic research? Support your answer with suitable example.	2+5

