

**B.Sc. IN RADIATION THERAPY (BRTT)**

**Term-End Examination**

**June, 2013**

**BAHI-045 : BASICS OF RESEARCH  
METHODOLOGY AND BIO-STATISTICS**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART-A**

- 1. Fill in the blanks : 1x10=10**
- (a) The characteristics of a True experiment are manipulation, control and \_\_\_\_\_
  - (b) A Quasi experiment lack at least one of the three properties \_\_\_\_\_ (or) \_\_\_\_\_ (or both).
  - (c) \_\_\_\_\_ refers to the process of selecting a portion of the population to represent the entire population.
  - (d) \_\_\_\_\_ of an instrument is the degree of consistency with which it measures the attribute it is supposed to be measuring.
  - (e) Validity refers to the degree to which an instrument measures \_\_\_\_\_.

- (f) Bell shaped curve ranges from \_\_\_\_\_ to \_\_\_\_\_.
- (g) When the data follows a normal distribution then its mean, median and mode will lie at the \_\_\_\_\_.
- (h) Correlation coefficient ranges from \_\_\_\_\_ to \_\_\_\_\_.
- (i) Histogram helps to check \_\_\_\_\_ assumption of the data.
- (j) The more serious error which a researcher could make is \_\_\_\_\_.

2. Write short notes on *any four* of the following : **3x4=12**
- (a) Experimental and Non experimental design
  - (b) Sampling criteria
  - (c) Data collection procedure
  - (d) Interpretation of data
  - (e) Correlation coefficient.

## PART-B

Attempt *any four* questions :

6x4=24

3. Explain about Qualitative and Quantitative design with suitable example.
4. A note on factors influencing sampling process.
5. Validity and Reliability of the instrument.
6. With a simple example explain summarization tabulation and classification of data.
7. Write a note on statistical packages and its application in research.

## PART-C

Attempt *any two* question :

12x2=24

8. Write a note on :
    - (a) Methods of data collection
    - (b) Presentation
    - (c) Types of instrument
  
  9. Frequency distribution and graphical presentation of data.
  
  10. Types of sampling techniques.
  
  11. Note on writing a research report.
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