No. of Printed Pages : 3

BAHI-045

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B.Sc. IN RADIATION THERAPY (BRTT)

Term-End Examination

December, 2013

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

Time : 3 hours *Maximum Marks : 70*

PART-A

1. Fill in the blanks : **1x10=10**

(a) The characteristices of TRUE experiment are manipulation, _____ and randomisation.

(b) True experiments are the most powerful method available to scientists for testing hypotheses of _____ .

(c) The _____ is the entire aggregate of cases about which the researcher would like to make generalizations.

(d) Reliability of an instrument is the _____ with which it measures the attribute it is supposed to be measuring.

(e) _____ refers to the degree to which an instrument measures what it is supposed to be measuring.

(f) _____, _____ and _____ are the measures of central tendency.

(g) The total area under the normal bell shaped curve is _____ .

(h) Correlation co-efficient ranges from _____ to _____ .

(i) Histogram helps to check _____ assumption of the data.

(j) _____ and _____ are the two types of errors that a researcher can make.

2. Write short notes on ***any four*** of the following : **3x4=12**

(a) Differentiate between qualitative and quantitative design.

(b) Factor influencing sampling process

(c) Types of Instruments

(d) Compilation and tabulation of a data

(e) Uses of statistics

PART-B

Attempt ***any four*** questions : **6x4=24**

3. Explain about experimental and non-experimental design with suitable example.

4. A note on types of Sampling Techniques.

5. Write a note on methods of data collection.

6. With a simple example explain summation, presentation and interpretation of data.

7. Write a note on statistical packages and its application on research.

PART-C

Attempt *any two* questions : 12x2=24

8. Write a note on :
(a) Population
(b) Pilot study
(c) Data collection procedure

9. Scale of measurement and measures of central tendency with example.

10. Explain normal probability and test of significance.

11. Note on communication of the research.
