SWAMI VIVEKĀNANDA YOGA ANUSANDHĀNA SAMSTHĀNA

A University, established under Section 3 of the UGC Act, 1956

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MS T 104 Research Methodology 1

DATE: 31.05.2012   Time: 3 Hours (10 AM – 1 PM)   Max. Marks: 100

Q1. Answer any five: 5X10=50

1. What are the sampling methods and explain them?

2. What are types of design? Explain each of them?

3. Prepared a synopsis by making your own choice of hypothesis.

4. How do you analize the data? Write the statisctical name of Parametric and Non-Parametric test and its application in types of design.

5. Calculate the Mean, Mode, Median, SD and Range for 9, 6, 12, 9, 15, 20, 22, and 24.

6. An experimentor measured 10 subjects Systolic Blood pressure before and after Nadisudhi pranayama? The values are given in the table.
(i) State the null and alternate hypothesis.
(ii) Find the critical values.
(iii) Sketch the acceptance and rejection region.
(iv) Decide whether you should accept or reject the null hypothesis.
Table values of 't' at 9 degree of fredom is 2.262 at alph =0.05.

Before	107	105	105	105	110	112	103	108	111	108
After	105	103	103	103	108	110	101	106	109	106

Q.2. Write short notes on: 5X5=25
   a. Literature review
   b. Types Variable
   c. Hypothesis
   d. Types measurement
   e. Abstract

Q.3. Answer in one or two lines.   2X5=10
   a. Validity
   b. IRB
   c. Placebo
   d. Reliability
   e. Population

Q.4. Match the column A and B   5

A	B
a. Height	1. Paired "t" test
b. Kruskal-wallis	2. Interval data
c. Pre-post design	3. Ratio data
d. Bias	4. Nonparametric test
e. Temperature in ^{0}F	5. Randomization

Q.5. Fill in the blanks   10

1. Examination grade comes under ....type of data.
2. The small part of the entire population is called..............................
3. Harmless pill used instead of original drug is called......................
4. .... used to reduce the influence confounding variables.
5. ....Web site is helpful for the Literature review.
6. ....type of sampling is where every person / member of the population has equal chance of selection.
7. Data collected before experiment start is callled...............................
8. Guna personality measured by ....instruments.
9. The most frequently occurred values are called......................................
10. .... is the unit of weight.