

SWAMI VIVEKĀNANDA YOGA ANUSANDHĀNA SAMSTHĀNA
A University, established under Section 3 of the UGC Act, 1956
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MDY 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 analyze the data? Write the statistical 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 experimenter 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 freedom is 2.262 at $\alpha = 0.05$.

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

Q2. Write short notes on:

5X5=25

- a. Literature review
- b. Types Variable
- c. Hypothesis
- d. Types measurement
- e. Abstract

Q3. Answer in one or two lines.

2X5=10

- a. Validity
- b. IRB
- c. Placebo
- d. Reliability
- e. Population

PTO

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 °F	5. Randomization

Q.5. Fill in the blanks

10

1. Examination grade comes undertype 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 called.....
8. Guna personality measured byinstruments.
9. The most frequently occurred values are called.....
10. is the unit of weight.