

Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore – 641 043.
Continuous Internal Assessment Test II - March 2019
SEMESTER II

Max. Marks: 45
 Time: 2 Hrs.

Class : I.M.Ed.
 Major: Education

18MEDC06: Advanced Educational Research and Statistics

- CO1: Choose appropriate quantitative or qualitative method to collect data
 CO2: Write a research proposal suitable for submission to a research funding body
 CO3: Carry out independent research using a range of research designs and methods
 CO4: Maintain respect for individual research contributions and intellectual property rights and demonstrate ethical behavior
 CO5: Interpret and present the results of an independently conducted statistical analysis

PART – A

6x ½ = 3

Choose the correct answer:

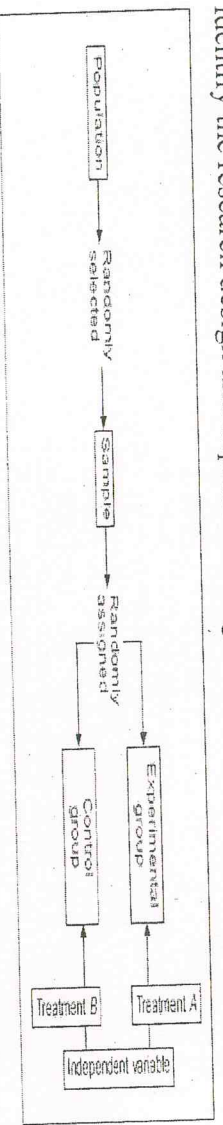
1. A process for getting permission before conducting an intervention on a person by making him/her understand the purpose, benefits, risks, and other options of the test is called _____.
 a. Patent b. Copyright c. Informed Consent d. Trademark
CO4 K2
2. A list of all of the sources used in the process of researching your work is _____.
 a. Appendix b. Bibliography c. Citation d. Acknowledgement
CO3 K3
3. Pre test post test non equivalent group design comes under _____ design.
 a. Pre experimental b. Quasi experimental c. Pseudo experimental d. True experimental
CO2 K2
4. Reference style used in social science is _____.
 a. MLA b. IEEE c. APA d. CMS
CO3 K3
5. The tendency of some people to work harder and perform better in a study due to their awareness of being observed is
 a. John Henry effect b. Hawthorne effect
 c. Resentful Demoralisation d. Experimental diffusion
CO5 K2
6. t- test is used to compare the _____.
 a. Standard deviation b. Mean c. Median d. Mode
3 x 4 = 12

PART – B

Answer ALL questions

Each answer should not exceed 200 words or one page

7. a. What are the parts of a research report?
CO2 K1
 (or)
7. b. What is the role of ethics committee?
CO4 K2
8. a. Differentiate reference and citation. (or)
CO4 K2
8. b. Give the reference format for a book, article from a journal, newsletter and from website
CO2 K3
9. a. Define Patent. What are the steps involved in applying for patent?
CO4 K2
 (or)
9. b. Identify the research design and explain the design with an illustration.
CO3 K4



3 x 10 = 30

PART – C

Answer ALL questions

Each answer should not exceed 600 words or three pages

- 10 a. Explain Quasi Experimental Designs with examples.
CO3 K2
 (or)
- 10 b. Explain in detail the factors affecting internal validity of research design.
CO3 K2
- 11 a. Prepare a research proposal for any topic of your interest.
CO2 K:

- 11 b Explain the criteria to be followed for evaluating a research report. CO2 K4
- 12 a. A certain medicine is claimed to be effective in increasing the concentration among students. In an experiment 500 students were taken for the study. Half of them were given the medicine and half of them were given sugar pills. The students' reaction to the medicine is recorded in the following table. CO5 K6

Treatment	Increased concentration	Decreased concentration	No effect	Total
Medicine	150	30	70	250
Sugar Pills	130	40	80	250
Total	280	70	150	500

Is there a significant difference in the effect of medicine and sugar pills?

(or)

- 12 b The following data were collected from two institutions with regard to the scholarship given to research scholars. Do the data give evidence that the scholarship paid in Institute B is significantly more than in Institute A? Test at a significance level of 1%. CO5 K6

Institute	Mean Monthly Scholarship in Rs	Standard Deviation in Rs	Sample size
A	1400	80	200
B	1600	120	175

