

**Avinashilingam Institute for Home Science And Higher Education for Women
Coimbatore – 641 043.**

**Continuous Internal Assessment Test II - February 2021
SEMESTER I**

Class : M.Ed.

Time: 2 Hrs.
Max. Marks: 30

20MEDC03: Introduction to Educational Research and Statistics

Course Outcomes:

- CO1: gain fundamental knowledge of educational research
- CO2: identify issues in the conduct of research that often raise ethical concerns
- CO3: understand the techniques of sampling and familiarize the tools of data collection
- CO4: describe the steps involved in research process
- CO5: gain basic statistical techniques and experience using software for data management and analysis

PART – A

6 x 1 = 6

**Answer all questions
(Multiple choice questions)**

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|---|-----|----|
| 1. Which of the following is not a criterion for the statement of a good research problem?
a. Expression of relationship between/among variables
b. Clarity and unambiguousness.
c. Possibility of empirical testing.
d. Possibility of use of statistical analysis | CO1 | K1 |
| 2. Which of the following is a measure of location?
a. Mode b. Mean c. Percentile d. Standard Deviation | CO5 | K1 |
| 3. An investigator wants to study the vocational job satisfaction of physically challenged people in a wide geographical area. She/he should select her/his sample by using
a. Sample Random sampling b. Stratified sampling
c. Purposive sampling d. Convenient sampling | CO2 | K5 |
| 4. The distribution of a large number of means based on samples of the sample size selected from the same population is known as
a. Normal distribution b. Sampling distribution
c. Standard distribution d. Rectangular distribution | CO5 | K3 |
| 5. Two variables X and Y are correlated. This means that the two variables
a. Cause variation in each other b. Measure the same trait
c. Vary together d. Vary independently | CO5 | K3 |
| 6. When the questions are presented to the respondents in a face-to-face situation and the interviewer fills out the query rather than the subjects it is known as
a. An inventory b. A questionnaire c. A schedule d. A test | CO4 | K4 |

PART – B

2 x 6 = 12

Answer any two questions

(2 out of 4 Questions)

Answer should not exceed 400 words

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|-----|---|-----|----|
| 7. | What is a rating scale? Discuss the steps involved in the construction of rating scale. | CO2 | K2 |
| 8. | List the 3 research topics in which you will use observation technique. | CO4 | K5 |
| 9. | Discuss any three examples where graphical representation will be more effective. | CO4 | K4 |
| 10. | Explain the characteristics of normal distribution curve. | CO4 | K2 |

PART – C

1 x 12 = 12

Answer any one question

(1 out of 2 Questions)

Answer should not exceed 800 words

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|-----|---|-----|----|
| 11. | Construct two questions for each: Nominal, Ordinal, Interval and Ratio. | CO4 | K5 |
| 12. | Explain the three types of kurtosis with diagram. | CO3 | K3 |
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