

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

**Continuous Internal Assessment Test I - August 2019**  
**Semester I**

Class : I.M.Ed.  
Major: Education

Max. Marks: 45  
Time: 2 Hrs.

**18MEDC03 – Introduction to Educational Research and Statistics**

Course Outcomes : The learners will be able to

- CO1 Independently search for, integrate and critically assess research information within the field of education.
- CO2 design different data collection methods and conduct an indepth interview, a focus group, qualitative case study and a mixed method study.
- CO3 construct instruments for the measurement of different psychological, sociological, technological and other educational factors.
- CO4 Enter, analyse and interpret the results of the data using SPSS and Microsoft Excel.
- CO5 Apply basic concepts in Statistics to educational research.

**Part – A**

**6 x ½ = 3**

**Answer the following**

**Choose the correct Answer**

1. One of the following is not a quality of a good researcher  
a. being unbiased                      b. unfriendly with respondent                      CO1    K2  
c. maintaining accuracy              d. Being curious
2. The teacher applies the theories of motivation in the actual classroom teaching to find out the learning outcome. This is an example of  
a. Educational research                      b. Applied research                      CO1    K1  
c. Empirical research                      d. Descriptive research
3. X attempted to study Naturalistic philosophy to give some new dimension to it. This can be categorized as  
a. Conceptual research                      b. Applied research  
c. Fundamental research                      d. Descriptive research                      CO5    K3
4. What is the median for the following set of scores?  
20,30,10,0,0,10  
a. 10                      b. 5                      c. 0                      d. 15                      CO5    K1
5. The kurtosis for normally distributed data is  
a. <3                      b. =3                      c. >3                      d. 0                      CO3    K1
6. The relation between mean, median and mode is  
a.  $Z = \text{Median} - \text{mean}$                       b.  $Z = 3 \text{ Median} - \text{mean}$   
c.  $Z = 3 \text{ Median} - 2 \text{ mean}$                       d.  $Z = 2 \text{ Median} - 3 \text{ mean}$                       **3 x 4 = 12**

**Part – B**

**3 x 4 = 12**

**Answer all the questions**

**Each answer should not exceed 200 words or one page**

7. a. What is Educational Research? Give two problems of research from your area of interest in education.                      CO1    K3  
(or)
7. b. Mention any six criteria of a good research                      CO1    K2
8. a. Do you think that the researcher should possess some specific qualities ? Justify your answer                      CO1    K3
8. b. Differentiate Quantitative research from Qualitative research                      CO2    K3
9. a. Differentiate Skewness and kurtosis(any 8)                      CO5    K3  
(or)
9. b. Differentiate Mean and Median(any 8)                      CO5    K3

**Part – C**

**3 x 10 = 30**

**Answer all the questions**

**Each answer should not exceed 600 words or three pages**

- 10 a. Discuss the role of computer technology in research.                      CO1    K3  
(or)
- 10 b. How can Descriptive Research be converted into Analytical Research?                      CO1    K3

- 11 a. Draw a flow chart depicting the types of educational research . Explain CO1 K5  
any two types in detail with illustration

(or)

- 11 b. Explain the uses of Statistics in Education CO5 K2

12 a.

Calculate the Quartile Deviation for the following data. CO5 K3

Class Interval	01-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	5	9	8	8	2	3	6	4	5

(Or)

- 12 b. Compute the variance and SD from the following distribution of scores CO5 K3

Class interval	100-109	110-119	120-129	130-139	140-149	150-159	160-169	170-179	180-189	190-199
Frequency	7	7	2	6	8	38	11	15	4	2

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