



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category A by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A+ Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Master of Education Degree Examination – March 2021
I Semester

Class: I M.Ed.

Time : 3 Hours
Max. Marks : 100

20MEDC03 Introduction to Educational Research and Statistics

Part A

Choose the Correct Answer

10 x 1 = 10

1. 'Criteria of good research' is written by
 - a. James Harold Fox
 - b. PV Young
 - c. Karl Popper
 - d. Delta Kappan
2. Which is NOT a quality of a good researcher?
 - a. Curiosity
 - b. Commitment
 - c. Critical thinking
 - d. Commerciality
3. Which research is also called as Pure or Fundamental research?
 - a. Applied research
 - b. Basic research
 - c. Action research
 - d. Historical research
4. Historical research design is
 - a. unobtrusive, the act of research does not affect the result of the study
 - b. well-suited for trend analysis
 - c. uses secondary sources and variety of primary documentary evidences
 - d. all the above
5. A good hypothesis should NOT be
 - a. limited in scope
 - b. a bunch of relationships
 - c. consistent with known theories and facts
 - d. very short
6. Which of the following type of Interview schedule requires research?
 - a. Semi-structured Interview schedule
 - b. Focused Interview schedule
 - c. Structured Interview schedule
 - d. Non-directive Interview schedule
7. In a normal distribution, which of the following is correct?
 - a. Mean > Median > Mode
 - b. Mean < Median < Mode
 - c. Mean = Median = Mode
 - d. Mean > Median = Mode
8. Which scale is the simplest form of measurement?
 - a. Interval scale
 - b. Nominal scale
 - c. Ordinal scale
 - d. Ratio scale
9. The formula for calculation of the mode is
 - a. Mode = 3 Mean - 2 Median
 - b. Mode = 2 Median - 2 Mean
 - c. Mode = 3 Median - 2 Mean
 - d. Mode = 4 Median - 3 Mean
10. The range of the distribution {4, 6, 8, 4, 4, 2, 9, 3, 7, 2} is
 - a. 4
 - b. 7
 - c. 2
 - d. 9

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

11. a. Define educational research. Highlight the Nature and Significance of educational research.
(or)
11. b. Enumerate the qualities of a good researcher.
12. a. Comment on the need and importance of ex-post facto research in education.
(or)
12. b. Distinguish qualitative and quantitative research in education.
13. a. Critically appraise the criteria for identification and selection of a research problem and its sources.
(or)
13. b. Discuss the standardization procedure of tools and techniques in educational research.
14. a. Justify the need and uses of statistics in educational research.
(or)
14. b. Explain ANY THREE types of graphical representation of data in educational research with illustration.
15. a. What are the Measures of Central Tendencies? Explain each one with its merits and demerits.
(or)
15. b. Write short notes on: (i) Skewness and (ii) Kurtosis and highlight their types.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

16. a. Substantiate the role of computer technology in research with examples.
(or)
16. b. Enlighten the criteria of a good research in education.
17. a. Write in detail on 'Historical research and its significance in education'.
(or)
17. b. Explain the experimental research in education with its types.
18. a. Describe probability and non-probability sampling methods in educational research.
(or)
18. b. Highlight the purpose and procedure of writing review of related literature in research.
19. a. Discuss the normal distribution curve with its characteristics.
(or)
19. b. List out and explain the four types of data in educational research with example.
20. a. Elucidate the measures of variability with its merits and demerits.
(or)
20. b. Find:
(i) Mean (ii) Median (iii) Mode and (iv) Range of the following set of data:
{ 5, 6, 2, 14, 7, 8, 3, 5, 6, 6, 9, 4, 8, 12, 13, 2, 4, 3, 6, 10}
