

**TDC Odd Semester Exam., 2020
held in July, 2021**

**EDUCATION
(Honours)**

(5th Semester)

Course No. : EDCH-503

(Action Research and Statistics in Education)

Full Marks : 50
Pass Marks : 17

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. (a) Define research. Discuss briefly any two types of research. 1+4=5
(b) What are the differences between basic and action research? 5

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(Turn Over)

2. (a) What is meant by applied research? Discuss three main characteristics of applied research. 2+3=5
(b) Describe the importance of action research for a teacher. 5

UNIT—II

3. (a) What is action research? 4
(b) Discuss the procedure of conducting action research in different areas of school education. 6
4. (a) What are the different problem areas of school education? 4
(b) How does action research help in the development of educational theory and improvement of classroom practices? 6

UNIT—III

5. (a) Explain the meaning and nature of statistics in education. 4
(b) Write in brief about the various scales of measurement. 6
6. (a) What do you understand by the term 'data' as used in statistics? Why is it essential to organize data? 2+4=6
(b) How can you organize data in the form of frequency distribution? 4

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(Continued)

(3)

UNIT—IV

7. (a) Discuss the main characteristics of central tendency. 5
(b) Write the uses of mean, median and mode with the help of examples. 5
8. (a) Define median. 2
(b) Calculate the mean and median from the following set of scores : 4+4=8
72, 74, 77, 53, 58, 63,
66, 82, 89, 69, 71, 86

UNIT—V

9. (a) What are the different measures of variability? 2
(b) Calculate standard deviation of the following distribution : 8

Class interval	Frequencies (f)
65-69	2
60-64	5
55-59	8
50-54	12
45-49	16
40-44	20
35-39	15
30-34	13
25-29	6
20-24	3

$\overline{N} \quad \overline{100}$

(4)

10. (a) Define coefficient of correlation. 2
(b) The following table shows the scores of ten students in English and History : 7+1=8

Students	English	History
A	42	50
B	69	38
C	63	71
D	30	28
E	75	60
F	41	47
G	55	47
H	60	55
I	75	65
J	35	35

Find the rank difference coefficient of correlation between the two sets of scores and describe if any prediction can be made out of the result obtained.

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