PG Odd Semester (CBCS) Exam., December—2016

EDUCATION

(1st Semester)

Course No. : MED–104 (C)

(Research Methodology and Statistics in Education)

Full Marks : 75
Pass Marks : 30

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. *(a)* Explain the steps of scientific method of acquisition of knowledge. 7½

(b) Describe the characteristics of educational research. 7½

OR

2. *(a)* Explain the steps of experimental research. 7½

(b) Describe the scope of educational research with examples. 7½

3. *(a)* Elaborate the procedure of selection of research problem. 7½

(b) What are the sources of related literature? Explain it with examples. 7½

OR

4. *(a)* Describe the importance of statistical hypothesis. 7½

(b) Enumerate the characteristics of good hypothesis. 7½

5. *(a)* What are the techniques used in simple random sampling? Explain it with suitable examples. 7½

(b) What are the types of true experimental design? Describe any one design with example. 7½

OR

6. *(a)* Name the types of tools used in educational research. Explain these with examples. 7½

(b) Distinguish between primary and secondary data. 7½

7. *(a)* What are the procedures for quantitative data analysis in educational research? Explain. 7½

(b) Distinguish between qualitative and quantitative data. 7½

OR

8. *(a)* Prepare an experimental research proposal format with examples. 7½

(b) Distinguish between research proposal and research report. 7½

9. *(a)* Describe the need of using statistics in educational research. 5

(b) Compute the median of the following scores : 10

Scores	*f*
20–21	2
18–19	2
16–17	4
14–15	0
12–13	4
10–11	0
8–9	4
N	16

OR

10. *(a)* Explain the uses of mean, median and mode. 5

(b) Two judges *X* and *Y* ranked 10 students in a declamation contest. Calculate the rank difference correlation by taking the ranks given by the two judges : 10

Students	*Rank assigned by X*	*Rank assigned by Y*
A	1	2
B	5	3
C	4	5
D	6	4
E	3	6
F	2	1
G	7	7
H	9	8
I	10	9
J	8	10

★ ★ ★