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

EDUCATION (M.Ed)

(3rd Semester)

Course No. : MEDCC–301

(Advanced Research Methodology and Statistics)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. *(a)* What is experimental design? 4

(b) Discuss any one experimental research design with appropriate example. 10

OR

2. *(a)* Define the concept of 'variable'. 4

(b) Discuss various types of variable with example. 10

3. *(a)* Enumerate various tools of data collection. 4

(b) Which tool do you consider most appropriate to collect data for survey research? Justify your answer with example. 10

OR

4. *(a)* Define the concept of 'reliability'. 4

(b) Write down the methods of establishing reliability of a standardized test. 10

5. *(a)* What are parametric and non-parametric statistics? 4

(b) What are the assumptions made while using parametric and non-parametric statistics? 10

OR

6. *(a)* What is *t*-test? 4

(b) Apply *t*-test with the following data and interpret the result : 5+5=10

	Employee		*t-value*	*Degrees of Freedom*	*Level of Sig.*
Job Satisfaction in Workplace	Male *N* 245	Female *N* 295	?	?	?
	Mean–164·65	Mean–162			
	SD–31·43	SD–30·81			

7. *(a)* Define the concepts of 'qualitative data' and 'quantitative data'. 4

(b) What are the steps followed while organizing the quantitative data? 10

OR

8. *(a)* What do you mean by organization of data? 4

(b) Organize the following data into cumulative frequency table : 10

29, 33, 43, 36, 26, 42, 25, 37, 31, 25, 10, 38, 52, 21, 20, 25, 32, 44, 45, 13, 54, 29, 22, 31, 34, 26, 16, 19, 17, 38, 47, 10, 3, 49, 15, 36, 8, 39, 30, 25, 24, 12, 21, 16, 32, 39, 27, 27, 40, 28, 27, 35, 26, 20, 34, 23, 27, 33, 25, 34 = 60

9. *(a)* What are the modern techniques of data analysis? 4

(b) Which computer softwares are widely used to organize the data and its analysis? Describe any one of them in detail. 10

OR

10. *(a)* What are the uses of computer in social science research? 4

(b) What are the precautions a researcher must take while organizing the data in computer? 10

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