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PYH 451

II Semester M.Sc. Examination, September/October 2022

PSYCHOLOGY

Basics of Research and Statistics

Time : 3 Hours

Max. Marks : 70

I. Answer **any five** of the following (**Concepts**) :

(5×2=10)

- 1) What is a variable ?
- 2) Elucidate the meaning of internal validity of an experimental design.
- 3) Find the mode(s) of the following data :
10, 17, 13, 16, 13, 18, 17, 12, 18, 14, 17, 15, 14, 19, 20, 14, 11.
- 4) Define coefficient of determination.
- 5) What is a Sample ?
- 6) What is Skewness ?

II. Answer **any three** of the following (**Short Notes**) :

(3×5=15)

- 7) Discuss the types of hypotheses.
- 8) Write a note on controlling extraneous variable.
- 9) Explain the nature, scope of statistics in psychological research.
- 10) Write steps of TWO Way ANOVA.

P.T.O.



III. Answer **any three** of the following (**Essay Questions**) :

(3×15=45)

- 11) Write a detailed note on the types of sampling methods.
- 12) Critically examine the principles of experimental designs.
- 13) Write a note on measures of central tendency and variability and compute the mean and Standard deviation for the following data.

Test Scores	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Frequency	3	9	13	17	16	10	8	4

- 14) Using the appropriate test, find out if Season and Depression are related.

	Spring	Summer	Fall	Winter
Depressive Mood	11	17	29	27
No Depressive Mood	12	19	7	8
