

QP Code: 102318

Reg. No.....

**M. Phil Clinical Psychology Part I Regular/Supplementary
Examinations September 2019
Paper II: Statistics and Research Methodology**

Time: 3 hrs

Max. Marks: 70

- Answer all the questions

Long Essays

(4x14=56)

1. What is correlation. Explain types of correlation. What are the different methods of detecting correlation. How rank correlation is different from Karl Pearson correlation coefficient.
2. Distinguish between population and sample. How sampling error is different from non-sampling error. How can you reduce sampling error. Also explain any three methods of probability sampling.
3. The following table illustrates the sample psychological health rating of corporate executives in the field of banking, IT and manufacturing sectors.

Banking	: 6	7	3	8
IT	: 5	5	3	7
Manufacturing	: 5	4	3	4

Perform one-way ANOVA to test whether psychological health of corporate executives in the given three fields are equal (at 5% level of significance $F(2, 9)$ is 4.26)

4. What are non-parametric tests. What are the assumptions involved. Explain the non-parametric tests used in case of a single sample, two samples and multiple samples.

Short Essays:

(2x7=14)

5. Factor analysis
6. Item difficulty and item discrimination
