2018

M.Phil.

1st Semester Examination

ECONOMICS

PAPER—ECO-111

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group–A

1. Answer any *two* questions :   2×5

   (a) Distinguish between a one-way ANOVA and a two-way ANOVA.

   (b) What are the major descriptive statistics used for measuring dispersion of a set of values ?

   (c) Write a note on linear versus non-linear correlation.

   (d) What are the different types of research ?

(Turn Over)

2. Answer any *one* question : 1×10

   (a) Write a note on different types of sampling used in empirical research based on primary data.

   (b) Explain the different steps in research process.

(Group–B)

3. Answer any *two* questions : 2×5

   (a) Construct the hypothesis of testing the equality of two variances and write the steps of this testing in MS-Excel.

   (b) Write the conditions along with STATA commands for the selection of

   (i) Pool Regression Model

   (ii) Random Effect Model and

   (iii) Fixed Effect Model.

   (c) Explain 'research design'.

   (d) Explain whether the following statement is true or false :

   If a hypothesis is rejected at 1% level of significance, it will always be rejected at 5% level.

4. *Answer any one* question : 1×10

(a) Explain the significance of research report and narrate the various steps involved in writing such a report.

(b) (i) Discuss briefly the advantages and disadvantages of non-parametric tests.

(ii) Test the hypothesis that the median length (θ) of ear-head of a variety of wheat is $\theta_0 = 9 \cdot 9$ cm against the alternative that $\theta \neq 9 \cdot 9$ cm with $\alpha = 0 \cdot 05$ on the basis of the following 20 ear-head measurements :

9·3, 8·8, 10·7, 11·5, 8·2, 9·7, 10·3, 8·6, 11·3, 10·7, 11·2, 9·0, 9·8, 9·3, 9·9, 10·3, 10·0, 10·1, 9·6, 10·4

5+5

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