

Master's Degree Examination-November 2018  
III Semester

Class: II PG  
Major: Economics

Max .Marks: 60  
Time: 3 Hours

17MECC17 Computer Applications in Economics

PART -A

(10x1/2=5 Marks)

Choose the Correct Answer

- In data editor the rows represent  
(a) Variable (b) Column (c) Data (d) Cases
- The square root of the sum of the squared deviations from the mean divided by the number of observations is \_\_\_\_\_  
(a) Correlation (b) ANOVA (c) Standard Deviation (d) Regression
- Leven's test for homogeneity of variance assesses whether the population variations for the groups are \_\_\_\_\_ from each other.  
(a) Not significantly different (b) significantly different (c) independent (d) dependent
- The correlation coefficient can take any value between \_\_\_\_\_.  
(a) 0 and 1 (b) 0 and -1 (c) -1 and 1 (d) Equals to 1
- Simple linear regression is a statistical technique for analyzing the linear relationship between \_\_\_\_\_.  
(a) Two or more factors (b) Two factors (c) Independent variable only (d) Dependent variable
- The F ratio is a test for testing the over all explanatory power of the \_\_\_\_\_ as measured by  $R^2$ .  
(a) Correlation (b) T Test (c) Regression (d) ANOVA
- \_\_\_\_\_ is appropriate , when the dependent variable is nominal or non-metric.  
(a) Analysis of variance (b) Correlation (c) Discriminant Analysis (d) Factor Analysis
- Any factor with an Eigen value greater than or equals to one explains variance than a single observed variable.  
(a) Equal (b) more (c) less (d) Zero
- \_\_\_\_\_ is a state of very high interconnections or inter associations among the independent variable.  
(a) Correlations (b) Regressions (c) Auto correlation (d) Multicollinearity
- A statistical method assessing the goodness of fit between a set of observed values and those expected value is \_\_\_\_\_.  
(a) T Test (b) Chi- square test (c) ANOVA (d) Correlation

**Part- B**

**5×4=20**

**Answer the following**

**Answer should not exceed 200 words or one page**

11. (a) Explains the procedures for importing the data into SPSS Programme.  
(Or)  
(b) State the procedures for entering data into data editor window and creating a data file.
12. (a) List the assumptions of Analysis of Variance.  
(Or)  
(c) What are the basic principles of ANOVA
13. (a) Explain the steps for calculating Spearman's rank correlation coefficient.  
(Or)  
(b) Define F-Value? Discuss its significance.
14. (a) State the important properties of Co-relation Co-efficient.  
(Or)  
(c) State the assumptions of Classical Linear Regression Model.
15. (a) How is regression equation is estimated in SPSS.  
(Or)  
(b) Explain the concept of Multicollinearity.

**Part-C**

**5×7 = 35**

**Answer the following**

**Answer should not exceed 600 words or three pages**

16. (a) Explain the importance of SPSS in data analysis.  
(Or)  
(a) Explain how to create a frequency distribution using SPSS.
17. (a) Explain the procedure for estimating descriptive statistics through SPSS.  
(Or)  
(b) What are the techniques of analysis of variance under one way classification?
18. (a) Explain the uses of 't' test in empirical research.  
(Or)  
(b) Discuss the steps to obtain a simple linear regression equation in SPSS.
19. (a) What are the procedures involved in estimating a trend line.  
(Or)  
(b) Discuss about testing of auto- correlation.
20. (a) Explain the steps to perform factor analysis in SPSS.  
(Or)  
(b) Briefly discuss the interpretation of Discriminant Analysis.