



KERALA AGRICULTURAL UNIVERSITY
B. Sc. (Hons.) C & B 2016 Admission
IV Semester Final Examination- July-2018
Quantitative Techniques (2+1)

Stat.2203

Marks: 50
... **Time: 2 hours**
(10x1=10)

I Fill in the blanks:

- 1 Any population Constant is called as
- 2 Cluster sampling helps to cost of the survey
- 3 Rejecting H_0 , when H_0 is true is error.
- 4 Test is independent of degrees of freedom.
- 5 The degrees of freedom of chi-square test while dealing with contingency table of 3×4 is
- 6 The moving average method eliminates
- 7 Appropriateness of various models can be decided by comparing :.....
- 8 Index numbers are known as:
- 9 In the computation of index numbers, most preferred average is :.....
- 10 Sampling inspection reduces the risk of the:

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 What is meant by Linear programming?
- 2 In what situation Sampling is inevitable.
- 3 What is meant by quality of a product?
- 4 What are the principle steps involved in statistical test.
- 5 When do you prefer paired t-test?
- 6 Name various components of Time series.
- 7 Discuss the merits and demerits of ratio to moving average method.

III Answer ANY FIVE of the following

(5x4=20)

- 1 Define standard error of an estimator and discuss it briefly
- 2 How is the whole sale price index worked out.
- 3 What is the theme behind the use of R-chart in SQC.
- 4 What purpose are served by sampling inspection.
- 5 What do you understand by Stratified random sampling?
- 6 Discuss irregular variation in the context of time series.
- 7 When should the control charts for fraction defective be preferred?

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1 How can the Control Charts be interpreted to draw meaningful conclusion
- 2 What do you understand by the test of goodness of fit
