

R05/AGR506/EE/20160520

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1.
 - a) What are the characteristics of Scientific Methods?
 - b) Describe steps involved in the development of a Scale in Agriculture Extension.
 - c) Explain the procedure of developing an attitude scale to measure the aptitude towards High Yielding Varieties Program.
 - d) Describe various steps involved in developing a Knowledge Test.
 - e) Explain need for job chart for the Village Level Workers.
2.
 - a) What is a Likert Technique and describe Likert Technique of Summated Rating?
 - b) Explain Variance Ratio Test ('F' Test) and state its applications.
 - c) State and explain the various Research Designs used in Social Sciences Research.
 - d) Explain Students 't' Test and state its applications.
 - e) Explain Karl Pearson's Coefficient of Correlation.
3.
 - a) Describe the areas which decides the Agriculture Progressiveness of Village.
 - b) Explain important Non-Parametric Statistical Tests used in Social Sciences.
 - c) What is Association of Attribute and explain Chi Square Test?
 - d) Explain Sign Test and Run Test with example.
 - e) Explain Multiple Correlation and Coefficient of Multiple Determinations.

4. a) Define Partial Correlation and explain its practical utility.
- b) Describe the practical utility of Regression Analysis in Social Sciences.
- c) Explain Regression Coefficient and properties of Regression Coefficient.
- d) What are the Growth Curves and explain their significance in the statistical analysis?
- e) What is meaning of Index Numbers and explain its applications?

