

AQ-500

(ii) State whether true or false :

- (a) Parametric statistical tests deals with parameters of population. 1
- (b) Non parametric tests are distribution free tests. 1
- (c) Parametric tests are used for data measured on ratio scale. 1
- (d) Non parametric tests are applied for the data measured on ordinal scale. 1

M.Sc. Home-Science (Communication and Extension)
Semester—II Examination

**RESEARCH METHODS IN COMMUNICATION
 AND EXTENSION /RM/FSN/HD/TC/CE**

(Common for all Specialisations)

**Subject Code— 121 RM 54/122 RM 54/123 RM 54/
 124 RM 54/125 RM 54**

Time—Two Hours]

[Total Marks—45

Note :— ALL questions are compulsory and carry equal marks.

1. Fill in the blanks with words given in the bracket :

(Independent, specific, research, null hypothesis, dependent, imitative, formulation, problem, innovative, alternative hypothesis)

- (i) _____ is systematic and scientific research for answers to questions and solutions to problem. 1
- (ii) _____ refer to a difficulty or perplexity question which needs an answer or solution. 1
- (iii) _____ refers to translating and transforming the selected research topic into scientifically researchable question. 1

- (iv) The researcher deals with the _____ objectives of the research study. 1
- (v) _____ refers to relationship between two or more variables of the study. 1
- (vi) The problem selected for research should be _____ and not _____ to existing one. 2
- (vii) _____ and _____ variables are the most frequently used variables by the researcher. 2
2. What is case study ? Describe the steps involved in conducting case study. 9
3. Answer any **ONE** of the following :
- (i) What is probability sampling ? State the characteristics of good sampling. 9
- (ii) What is non-probability sampling ? Explain any two methods of non-probability sampling. 9
4. Answer the following in **2-3** lines :
- (i) What is nominal level of measurement ? 2
- (ii) Discuss the questionnaire as a tool of data collection. 1
- (iii) Use of schedule as tool of data collection. 1
- (iv) What is use of rating scale ? 1
- (v) What is attitude scale ? 1
- (vi) Discuss interview as tool of data collection. 1

- (vii) State the use of observation as data collection tool. 1
- (viii) Explain analysis of data for interpretation. 1
5. (i) Match the Column A with Column B :
- | Column A | Column B |
|--|---|
| (1) Test based on rates rather than actual observation | (a) f-test |
| (2) Test is based on frequency of data measuring association between two variables or sets of data | (b) t-test |
| (3) Measuring the relationship between two or more variables or set of data | (c) Z-test |
| (4) Testing the significance of difference between the means of independent small samples | (d) Spearman's rank correlation coefficient |
| (5) Testing the significance of difference between two means of more than two independent samples | (e) χ^2 test |
| | (f) r-test |