

1127

B. Voc. (Food Processing and Preservation)

Fifth Semester

Paper – 502: Research Methodology and Statistics

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Attempt any four questions from the following:-

- a) For a series, mean value is 25 and median value is 22, find value of Mode.
- b) Write a brief note on stratified sampling.
- c) Define descriptive research.
- d) What is conditional probability?
- e) Explain qualitative research.
- f) What is scientific writing? (4x3)

UNIT – I

- II. What is sampling? Explain random sampling techniques with examples. (12)
- III. Explain research design. Discuss various research designs which are used in quantitative research. (12)

UNIT – II

- IV. Write a note on :-
 - a) Longitudinal vs. Cross-sectional research
 - b) Explanatory vs. Exploratory Research (2x6)
- V. Discuss addition and multiplication theorem of probability with examples. (12)

UNIT – III

- VI. What is qualitative research? Explain various data collection methods used in qualitative research. (12)
- VII. Explain various data analytic strategies in qualitative research. How are results reported in qualitative research? (12)

UNIT – IV

- VIII. Discuss various steps in writing of a research proposal. (12)
- IX. Write in detail ethics to be followed in relation to research with animal subjects. (12)

x-x-x