LMDQ/D-23   **6554**

RESEARCH METHODS, STATISTICS AND COMPUTER APPLICATION

FND-303

(CBCS-LOCF)

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory.

Compulsory Question

1. (a)   Objectives of research

    (b)   Continuous variable

    (c)   Sample size

    (d)   Scope of statistics

    (e)   Advantages of mode

    (f)   Skewness

    (g)   Characteristics of normal distribution

    (h)   Importance of software in home science   **8×2=16**

Unit I

2. How do we identify the research problem ? Explain. **16**

3. Write short notes on the following : **4×4=16**

(a) Dependent and independent variable

(b) Random and continuous variable

(c) Qualitative and quantitative variable

(d) Concept of variable.

Unit II

4. Briefly explain the following : **8×2=16**

(a) Random Sample

(b) Non Random Sample.

5. Determine the analysis of data and what point should be kept in mind while preparing research reports ? **4,12**

Unit III

6. Write in detail about :

(a) In what ways statistics play an important role in research. **8**

(b) Graphical representation of frequency distribution. **8**

7. (a) Find the arithmetic average and standard deviation from the following data : **12**

Age	No. of workers
0–10	15
10–20	15
20–30	23
30–40	22
40–50	25
50–60	10
60–70	5
70–80	10

(b) Write the formula of median and mean deviation. **4**

Unit IV

8. (a) Describe the chi-square test. Write about the advantage and limitation of test in frequency distribution. **8**

(b) Explain different types of coefficient of correlation. What precautions are necessary while applying this test ? **8**

9. (a) Define analysis of variance. Describe the techniques of ANOVA of one way and two way classification. **12**

(b) Write a short note on assumption of ANOVA ? **4**