D.K.M COLLEGE FOR WOMEN (AUTONOMOUS) VELLORE-1
DEPARTMENT OF FOODS AND NUTRITION
RESEARCH METHODOLOGY AND STATISTICS

Class: II M.Sc   **Subject Code: 15CPFN3D**

Unit –I (6 Marks Questions)

1. Define variables.
2. Give types of variables and its use.
3. How will you identify research problems?
4. Write the detailed steps in proposal writing.
5. What are the roles of Review of literatures?
6. Define hypothesis.
7. Define research design.
8. Discuss on tools of research.

Unit –I (15 Marks Questions)

1. Discuss on different types of sampling.
2. Write a model research proposal.
3. Discuss on types and basic principles of research variables.
4. What is null hypothesis? Explain types of hypothesis.
5. Elaborate research and give its objectives.
6. List out the types of research and explain in detail.

Unit –II (6 Marks Questions)

1. Define quantitative research.
2. Differentiate qualitative and quantities research.
3. Discuss on sources of data.
4. Define tabulation representation with examples.

5. Define graphical representation.

Unit –II (15 Marks Questions)

1. Elaborate the quantitative methods in research and their uses.
2. Describe in detail about the data analysis for specific type of data.

Unit –III (6 Marks Questions)

1. Define report writing.
2. Define format of thesis.
3. The steps to be followed in research presentation.
4. Differentiate oral and written presentation.
5. Role computer on research.

Unit –III (15 Marks Questions)

1. Write a brief note on designs, methods and techniques involved in research.
2. Describe in detail about format of thesis.
3. Write a brief note on application of computer in research.
4. Elaborate about the communication and evaluation of research.
5. Write a brief note on associations and institutions involved in nutrition research.

Unit –IV (6 Marks Questions)

1. Draw a histogram and frequency polygon from the following data

Marks	No.of.Students	Marks	No.of.Students
0-10	4	50-60	14
10-20	6	60-70	8
20-40	14	70-90	16
40-50	16	90-100	5

2. Find the quartiles from the following distribution.

Age in years	No.of Employees	Age in years	No.of Employees
15-20	13	35-40	112
20-25	29	40-45	94
25-30	46	45-50	45
30-35	60	50-55	21

3. Calculate coefficient of correlation from the following

X	100	200	300	400	500	600	700
Y	30	50	60	80	100	110	130

4. State and prove Baye's theorem.
5. A bag contains 7 red and 5 blue balls 2 balls are drawn at random. What is the probability that

      i.   Both are red balls

      ii. Both are blue balls

      iii. 2red and 2 blue balls

6. Discuss on Mean, Median and Mode.
7. Write the advantages and Disadvantages of Mean and Mode.

Unit –IV (15 Marks Questions)

1. Elaborate the details about the deviation.
2. Pros and cons of median.
3. Details about measures of central tendency.
4. Details about the co-relation and their importance.
5. Write a detail note on probability.
6. Elaborate the test of significance.

Unit –V (6 Marks Questions)

1. Define binominal Poisson distribution.

2. Define probability.
3. Define "t" test.
4. Define Chi-square test.
5. Define dimple "f" test.

Unit –V (15 Marks Questions)

1. Discussion in general the application of probability in research.
2. Discuss on different theorems of probability.