

**National Law University Jodhpur**  
**Research Methodology**  
**Ph.D. Course work**  
**End-Term Examination 2025**

Time: 3 Hours

Max. Marks: 100

Instructions: Attempt four out of all six questions and at least one from each section.

*Section – A*

- All non-scientific calculators are allowed.
- Normal distribution table & t-distribution table can be used.

Q1. (a) Calculate Karl Pearson's coefficient of correlation for the data given below

Height of Husbands X (in inches)	60	62	64	66	68	70	72
Height of Wives	61	63	63	63	64	65	67

Q1. (b). Define standard deviation and calculate standard deviation of following data:

Cost('000Rs.)	5	10	15	20	25	30	35
Sales (Lakhs)	1	3	11	17	25	36	37

(13+12=25 Marks)

Q2. (a). In a locality containing 18000 families a sample of 840 families was selected at random. Of these 840 families 206 families were found to have a monthly income of Rs.5000 or less. It is desired to know how many out of the 18000 families have a monthly income of Rs. 5000 or less.

Q2. (b). A factory claims that only 1% units of the total production are substandard. A sample of 500 units is taken and 2% of them are found to be defective. Check the claim at 95% level of significance.

(13+12=25 Marks)

*Section-B*

Q3. Describe the different methods of data collection applicable to social research. Which of the methods would be suitable to conduct a study of "Socio-economic condition of tea workers in Assam.

(25 Marks)

Q4. Define the main issues that should receive the attention of the researcher in formulating the research problem. Discuss with a suitable example.

(25 Marks)

*Section-C*

Q5. Questionnaire plays a very vital role in the research. Explain the different types of questionnaires that can be used by researcher during research and the characteristics of a good questionnaire. Also, discuss the merits and demerits associated with questionnaire technique.

25 Marks

Q6. Discuss observation technique as a tool for data collection. In detail explain the different types of observation techniques. Also, explain the merits and demerits of different types of observation techniques.

25 Marks