

MEWAR UNIVERSITY

PhD Course Work Research Methodology (Assignment No. 1)

Q1. What do you understand by research? Define various types of research and its application in your area of research.

Q2. What is the difference between research methods and methodology? Discuss with example.

Q3. What is the meaning of the terms: 'objectives and motivation' in research? Explain how these can be used to define good research.

Q4. What do you understand by research design? Explain its importance with application in solving a research problem.

Q5. What do you mean by problem solving? Explain difference between scientific and non-scientific methods of problem solving.

Q6. Two researchers learnt about the tools of research and research methodology in a class. Both applied these to a specific research problem but their inferences and conclusions were different. Explain the reasons for variance in inferences and conclusions by the researchers, with example.

Q7. A researcher wants to collect data for solving the research problem. Discuss with details the approach to data collection for the following:

- a. Purchasing behavior of shoppers in a shopping mall
- b. Effect of fertilizer on yield from crops in a field

Q8. Discuss the role of statistical design in selection of proper statistical tools if a researcher wants to apply them for analyzing data, collected through survey and experiments.

Q9. Explain the difference between following with suitable examples:

- a. Synopsis and Thesis
- b. Review of literature and Citation.
- c. Data and Information

Q10. Write a short note on the following:

- a. Problem Identification
- b. Hypothesis
- c. Reference
- d. Bibliography
- e. Significance of Research