Research Methodology
Question Bank

1. Explain the meaning of research.

2. What is the necessity of defining a research problem?

3. What are the objectives of research?

4. What are the limitations of secondary data collection?

5. What are the features of a research design?

6. List down the advantages of observation method of data collection.

7. What are the guiding considerations in the construction of questionnaire? Explain.

8. Why tabulation is considered essential in a research study?

9. What are the precautions to be taken while writing a research report?

10. Explain the technique and importance of oral presentation of research findings.

11. Explain the different steps involved in a research process

12. (a) Discuss the various characteristics of a good research. (b) Explain the types of research in detail.

13. a) Briefly explain how to conduct a literature review during a research. b) Differentiate between Exploratory and Descriptive research design. 14. a) Bring out the importance of review of literature as a source of research problem. b) Explain the steps in developing a research plan.

14. a) What are the characteristics and functions of a research report? b) Give an account of the contents of a research report.

15. Explain the various steps of writing of research report in detail?

16. Explain the following research designs: Descriptive Studies and Causal Studies.

17. Discuss in detail the essential components of a research proposal.

18. Explain what is meant by 'Multivariate Analysis'.

19. Explain in detail Partial Least Square Regression.

20. Define the term Validity

21. Discuss the different forms of Validity.

22. Distinguish between Parametric and Non Parametric Tests.

23. What are the assumptions of the Parametric Tests?

24. Discuss computer aided search of literature.

25. What do you understand by the term, "Peer Review"? Discuss the "Simple Blind" and "Double blind" Peer Review methods.

26. Distinguish between "Accuracy" and "Precision".

27. Discuss various data collection methods with suitable examples.

28. Define Research, list the characteristics of true experimental designs and explain the various experimental designs with examples.

29. Wrote Short Notes on

    (i). Non-probability sampling techniques.
    (ii). Need for research ethics.
    (iii). Student T test.
    (iv). Dissemination and Utilization of research findings.
    (v). Components of Research Proposal.
    (vi). Hypothesis.
    (vii). Multivariate Analysis Tools.
    (viii). Significance level in Research.

30. Explain the steps of research process with examples.

31. Discuss the types of qualitative research design.

32. List the quantitative research designs and discuss in detail the experimental designs using suitable examples.

33. Discuss the types of sampling using suitable examples.

34. Describe the characteristics and logical format for writing a research thesis and research papers.

35. What is student t-Test and explain its importance.

36. What are the features that are essential for an abstract?

37. How do you make an effective illustration of research?

38. Explain the following research designs: (a) Descriptive Studies and Casual Studies. (b) Discuss in detail the essential components of a research proposal.

39. Discuss various data collection methods with suitable examples.

40. Explain how student's T-test and ANOVA are used with appropriate examples.

41. Discuss, in brief, the need for stratified random sampling. Is the mean of the stratified random sample unbiased estimator of the population mean? Justify your answer.

42. Distinguish between 'Ratio Scale' and 'Interval Scale'. In which situation Likert's scale is used?

43. What is reliability and validity of measurement? Explain procedure for testing reliability and validity of survey instrument used in your research.

44. Synergy Ltd. is organising a training programme for its 500 employees to improve performance. Some attend the programme while others not. The observation is as follows:

View	Improve	Not Improve
Attend	105	121
Not Attend	145	129

   i.   What is the situation, whether the data is numerical or categorical?
   ii.   Which method will be applied and why?
   iii.   If the training is any effective? Test at 5% level of significance.

45. Three brands of fertilizers have been used in three types of seeds. The productivity is observed as follows:

	Fertilizer 1	Fertilizer 2	Fertilizer 3
Seed 1	7	9	18
Seed 2	7	12	21
Seed 3	11	17	21

Test if there is any difference because of
   i.   Fertilizers
   ii.   Seeds

46. What is Multivariate Analysis? Explain the concept, use and importance of Factor Analysis.

47. Gannet India Ltd. estimates the age of its employees to be 45 years. A sample of 100 employees is taken out of which 60 are above 45 years, 8 are of 45 years and 32 are less than 45 years of age. Test if the age median of the employees of the company is 45 years.