

**TB214620W**

**Reg. No : .....**

**Name : .....**

**B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023**

**(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 & 2018 Admissions Supplementary)**

**SEMESTER IV - CORE COURSE ( NUTRITION AND DIETETICS)**

**ND4B10B20 - RESEARCH METHODOLOGY**

**Time : 3 Hours**

**Maximum Marks : 80**

**Part A**

**I. Answer any Ten questions. Each question carries 2 marks**

**(10x2=20)**

1. What are the basic motivations to do research?
2. Discuss on considerations in selecting a research problem.
3. Which are different parts of an overall research design?
4. Brief on 'before and after with control' design.
5. Describe on validity of research.
6. Describe on qualitative data with example.
7. Briefly explain systematic sampling.
8. Explain sample size.
9. Write a note on regression analysis and correlation coefficient.
10. Discuss the examples of plagiarism.
11. Discuss the use of encyclopedia in research.
12. Discuss on academic databases.

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Enumerate on theory, concepts and prepositions.
14. Distinguish between null and alternate hypothesis.
15. Enumerate on informal experimental research design.
16. Elaborate on procedure of experimental research design.
17. Enumerate on validity of research.
18. Explain probability sampling.
19. Explain univariate analysis and its types.
20. Discuss on plagiarism and self plagiarism with an example.
21. Explain the advantages of using academic journals for writing research paper.

**Part C**

**III. Answer any Two questions. Each question carries 15 marks**

**(2x15=30)**

22. Discuss about the various steps in the formulation of a research problem.
23. Explain different research designs.
24. Differentiate between qualitative and quantitative researches.
25. Explain a)stratified random sampling, b)multistage sampling, c)systematic sampling, d)sampling error and e)sample size.