# D.K.M.COLLEGE FOR WOMEN(AUTONOMOUS),VELLORE-1

**II M.Sc Biochemistry**

**Semester : III**

**Tile of the paper: RESEARCH METHODOLOGY**

**Subject Code : 15CPBC3B**

**SECTION-A 6 MARKS**

1. What do you mean by research? Explain the objectives and motivation in research?
2. Explain the criteria's of good research
3. Explain the importance and need of research
4. Explain the different types of research How will you select and identify a research problem
5. Explain the need and features of a good research design
6. What is research design? Explain the different type of research design
7. How do you define a research problem?
8. Explain the different experimental design?
9. Write short notes on Harvard and Vancouver system of reference styles
10. Give an account on the essential features of abstract
11. Explain the components of research report

12. Explain the classification of data
13. Explain the collection of data through questionnaires and schedules
14. Explain the diagrammatic representation of data
15. Give an account on the sources of secondary data
16. Explain the effective illustration of tables and figures
17. Write short notes on student 't'test
18. Give an account on measures of central tendency

19. Explain chi-square test for independent attributes
20. Explain the graphical representation of data
21. Give an account on regression analysis
22. Give an account on bologna declaration
23. Explain the process of patenting
24. Explain patenting and fundamental research
25. Explain the ethics in animal experimentation
26. Give an account on animal husbandry
27. Explain the type of patents

**SECTION-B 15 Marks**

1. Explain various steps and stages involved in research process
2. Write short notes on the following
    a) Motivation in research (5)
    b) Objectives in research(5)
    c) Criteria's of good research (5)
3. Describe some of the important research designs in experimental hypothesis testing
4. How will you formulate and test a hypothesis?
5. Explain the logic format for writing papers and thesis
6. Explain various methods of data collection and classification
7. Explain the role of computers in biology
8. Explain briefly ANOVA for one way and two way classification
9. Explain correlation and regression analysis
10. Explain the CPCSEA guidelines for laboratory animal facility
11. What do you understand by patenting? Explain the process of patenting