

COURSE CODE - 6030603

M.PHIL DEGREE EXAMINATION - JAN 2009

RESEARCH METHODOLOGY THEORY AND TECHNIQUES

**(Common to Chemistry, Electronics, Environmental science,
Library and information science, Maths, Physics, Physiology,
Zoology, Biochemistry, Biotechnology, Botany, Computer Science,
Commerce, Food & Nutrition, Geology, Home Science, Mass
Communication Journalism, Management, Microbiology, Physical
Education, Psychology, Textiles, Tourism Management)**

(For Candidates admitted from the calendar year 2007 on wards)

Time: 3 Hours

Max Marks: 100

Section - A

Answer ALL the Questions:

10 X 3 = 30

1. Define Research?
2. Write a short note on the Sampling Theory?
3. What do you mean by research? Explain its significance?
4. Tools for collecting data/ analyzing data?
5. Characteristic of laboratory Research?
6. Short note on the Primary Data Meaning?
7. Allied area of research?
8. Foot notes?
9. Define mean and median?
10. Laboratory Resources?

Section - B

Answer any FIVE Questions:

5 X 6 = 30

11. Need and importance of researched?
12. Explain the different types of Sampling?
13. Briefly explain the now Laboratory research?
14. Briefly explain the Standard Error?
15. Tools for collecting data?
16. Briefly explain the procedure of survey and case study?
17. Describe measures of central tendency?
18. Describe calculate the standard deviation for the following data
18, 14, 15, 17, 26.

Section - C

Answer any TWO Questions:

2 X 20 = 40

19. Mechanism of preparation and submission of Thesis?
20. Explain the Types of Hypothesis and Fundamentals of Hypothesis testing?
21. Calculate the mean and median for the following frequency; distribution?

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| Step intravel | 0-8 | 8-16 | 16-24 | 24-32 | 32-40 | 40-48 |
| Frequency | 10 | 9 | 18 | 26 | 17 | 9 |