

# Rajiv Gandhi University of Health Sciences, Karnataka

**M.D. / M.S. Ayurveda (PART-I) Degree Examination - APRIL-2019**

**Time: Three Hours**

**Max. Marks: 100 Marks**

## **RESEARCH METHODOLOGY AND BIOSTATISTICS - PAPER-I**

**Q.P. CODE: 3501**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

**(Note: Use the same theory answer scripts for writing Part A and Part B)**

**Part – A (60 Marks)**

### **LONG ESSAYS**

**2 x 10 = 20 Marks**

1. Discuss in detail about the types of referencing and bibliography.
2. Define research design. Mention the classification and explain in detail about the cohort study design.

### **SHORT ESSAYS**

**5 x 5 = 25 Marks**

3. Discuss the historical review of research in Ayurveda.
4. Enlighten on the quality control and standardization
5. Discuss about the Randomised Controlled Trials
6. Give brief information on the latest trends in the Drug Discovery process
7. Definition, classification of blinding and its importance in research

### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

8. Define research question and explain its importance.
9. CDCSO guidelines
10. Explain about Good Manufacturing Practice
11. Highlight the few examples of use of animal experimentation in Ayurveda
12. Write briefly about Manuscriptology.

**Part – B (40 Marks)**

### **LONG ESSAYS**

**1 x 10 = 10 Marks**

13. Explain in detail about the types and measures of variability.

### **SHORT ESSAYS**

**3 x 5 = 15 Marks**

14. Definitions, types and laws of probability
15. Explain about students 't' test and its significance
16. Choose and explain the tests of significance for a research study involving more than two groups with more than two observations in each group

### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

17. Significance of Mann-Whitney U test

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18. Mention the importance of 'P' value in research
19. Define degrees of freedom.
20. Define standard error
21. Define median with examples

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