

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.A.M.S Degree Examination - 27-Mar-2025

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS-5 & RS-6)
Q.P. CODE: 3098

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the steps involved in Research Process

6 x 5 = 30 Marks

SHORT ESSAYS

2. What are the probability sampling methods used in medical research?
3. Describe the properties of a normal curve
4. Briefly describe the analytical observational study designs
5. What are Ogives? What are their uses in medical research?
6. Describe the measures of location used in medical research
7. What are non-parametric tests?



SHORT ANSWERS

8. Define mean with its advantages
9. Nuremberg Code
10. AYUSH portal
11. Institutional Animal Ethics Committee (AEC)
12. Panchavayava Vakya

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.A.M.S Degree Examination - 10-Sep-2025

Time: 90 minutes

Max. Marks: 50

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS-5 & RS-6)
Q.P. CODE: 3098

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

1. Explain the concept of evidence based medicine and research article structuring

10 x 10 = 10 Marks

SHORT ESSAYS

2. Explain pure and applied research with examples
3. Write the etymology, definitions and synonyms of the word research
4. Write about the probability and test of significance
5. Explain in brief about the historical background of research in Ayurveda
6. Define sample and write the method of sampling
7. Define biostatistics and explain its importance in Ayurveda

6 x 5 = 30 Marks

5 x 2 = 10 Marks

SHORT ANSWERS

8. Standard deviation
9. Interventional research
10. Bioinformatics center
11. Data collection
12. Median

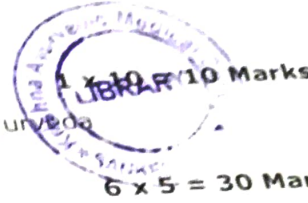
Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.A.M.S Degree Examination - 10-Sep-2025

Max. Marks: 50

Time: 90 minutes

RESEARCH METHODOLOGY AND MEDICAL STATISTICS (RS-4)
Q.P. CODE: 3030

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary



LONG ESSAYS

1. Define Research. Explain types of research. Discuss scope of research in Ayurveda.

SHORT ESSAYS

2. Write about historical background of research
3. Discuss research tools and their importance in clinical research
4. Define variability and explain its measures
5. Discuss about steps of research process
6. Explain Presentation of Data
7. Explain measures of central tendency with example

5 x 2 =

SHORT ANSWERS

8. Advantages of sampling
9. Variable
10. Standard error
11. Anveshana
12. Define Hypothesis

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.A.M.S Degree Examination - 09-Mar-2026

Time: 90 minutes
50

Max. Marks:

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS-5 & RS-6)
Q.P. CODE: 3098

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

1. Explain the steps in research process and importance of each steps

1 x 10 = 10 M

SHORT ESSAYS

2. Explain parametric and non parametric tests with example
3. Write about the variability and its measurement
4. Write the importance of IT in data mining
5. Write the scope and importance of the research in Ayurveda
6. Explain average and percentile with examples
7. Explain the role of Pratyaksha pramana in research with example

5 x 2

SHORT ANSWERS

8. Define data and write its classification
9. Write about graphical presentation of data
10. Ayush research portal
11. Observational research
12. Arithmetic mean



Rajiv Gandhi University of Health Sciences, Karnataka

Third Year BAMS (NCISM) Degree Examination - 10 Sept 2026

Time: 90 minutes

Max. Marks: 50

RESEARCH METHODOLOGY AND MEDICAL STATISTICS (RS-7)

Q.P. CODE: 3632

(QP contains two pages)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

NOTE: MCQ answers must be written in words along with alphabets

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain in detail about various research designs
2. Explain graphical representation of data with neat diagram

SHORT ESSAYS

4 x 5 = 20 Marks

3. Define Observational and Interventional studies and differentiate between them
4. Explain and differentiate parametric and non-parametric tests with examples
5. Explain the role of Institutional Ethics Committee (IEC) in Research
6. Define Research and Research objectives and explain evidence-based Research in Ayurveda

MULTIPLE CHOICE QUESTIONS

10 x 1 = 10 Marks

7. Numerical characteristics that can be measured are called
 - A. Attributes
 - B. Variables
 - C. Constants
 - D. Parameters
8. Arrangement of data in rows and columns is known as
 - A. Classification
 - B. Diagrammatic presentation
 - C. Tabulation
 - D. Graphical presentation
9. Which of the following is a parametric test?
 - A. Chi-square test
 - B. Mann-Whitney U test
 - C. T-test
 - D. Wilcoxon signed-rank test
10. Negative correlation means
 - A. Both variables increase together
 - B. One variable increase, the other decreases
 - C. Variables are independent
 - D. Variables are identical
11. Case reports and case series are examples of
 - A. Experimental studies
 - B. Analytical observational studies
 - C. Observational descriptive studies
 - D. Interventional studies

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12. Randomized controlled trials (RCTs) belong to
- A. Observational research
 - B. Experimental research
 - C. Descriptive research
 - D. Exploratory research
13. Research involving vulnerable populations requires
- A. No consent
 - B. Proxy consent only
 - C. Additional safeguards
 - D. Waiver of ethics approval
14. An ethics committee should consist
- A. Only clinicians
 - B. Only statisticians
 - C. Multidisciplinary members
 - D. Only institutional staff
15. Randomization in research is done to
- A. Increase sample size
 - B. Reduce bias
 - C. Improve precision only
 - D. Increase cost effectiveness
16. Non-parametric tests are also called
- A. Distribution-free tests
 - B. Tests of means
 - C. Interval tests
 - D. Ratio tests

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.A.M.S Degree Examination - 31-Aug-2026

Time: 90 minutes

Max. Marks: 50

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS-5 & RS-6)
Q.P. CODE: 3098

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

1 x 10 = 10 Mark

1. Define medical statistics and explain its scope and importance

SHORT ESSAYS

6 x 5 = 30 Mark

2. Difference between qualitative and quantitative research
3. Write short essay on materials and methods
4. AYUSH research portal
5. Variable
6. Tabular data presentation
7. Test of significance

SHORT ANSWERS

5 x 2 = 10 Ma

8. Enumerate pramanas useful in research
9. Define hypothesis
10. Define pure research
11. Siddhanta
12. Observational research
