

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 26-Dec-2023

Time: 90 minutes

Max. Marks: 50

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 x 10 = 10 Marks

1. Define Anusandhana and write its synonyms. Discuss the scope and importance of research in Ayurveda

SHORT ESSAYS

6 x 5 = 30 Marks

2. Discuss steps of research process with one example
3. Write about importance of ethics in research
4. What is applied research? Explain with example
5. What is Data? Write methods of data presentations
6. Explain measures of central tendency with suitable example
7. Write about variability and its measures

SHORT ANSWERS

5 x 2 = 10 Marks

8. Mention what are research tools
9. Interventional research
10. Population
11. Define probability
12. Percentile

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - MARCH 2018

Time: 90 minutes

Max. Marks: 50 Marks

Research Methodology and Medical Statistics (Revised Scheme 4)

Q.P. CODE: 3030

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

5+5+5 = 15 Marks

1. Define Research and Research Methodology. Explain types of Research. Explain basic and applied research with suitable example.

SHORT ESSAYS

5 x 5 = 25 Marks

2. What are Parametric and Non Parametric tests? Explain 'Z' test.
3. Define Bioinformatics. Explain its importance.
4. Define Data. Discuss Presentation of Data.
5. Define Central Tendency. Discuss measures of Central Tendency.
6. Define Anusandhana. Explain evidences of Research in Ayurveda.

SHORT ANSWERS

5 x 2 = 10 Marks

7. Percentile
8. Role of Ethics in Research
9. Importance of Research portals
10. Statistics in Ayurveda
11. Measurement of Variables

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - MARCH 2019

Time: 90 minutes

Max. Marks: 50 Marks

Research Methodology and Medical Statistics (Revised Scheme 4)

Q.P. CODE: 3030

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

5+5+5 = 15 Marks

1. Define Research, its types. Explain Qualitative and Quantitative Research with suitable examples.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Define Bioinformatics. Explain scope and importance in Research.
3. What do mean by DHARA? List few Research Portals with their significance.
4. Explain Statistics in Ayurveda with suitable examples.
5. Define Probability. Explain Tests of Significance.
6. Define Variability. Explain Range and Standard Deviation.

SHORT ANSWERS

5 x 2 = 10 Marks

7. Student's 't' test
8. Sample size
9. PubMed
10. Hypothesis
11. Evidences of Research in Ayurveda

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 06-Mar-2020

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Define Research Methodology, Classify, Discuss Quantitative and Qualitative Research with relevant example.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Normal distribution.
3. Discuss research protocol with example.
4. Explain the importance of ethics in clinical research.
5. Concept of probability.
6. Parametric and non-parametric tests.
7. Explain the role of yukti pramana in research with example.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Evidence of research in Ayurveda.
9. Graphical presentation of data.
10. Sample and population.
11. Explain mean.
12. Anusandhana.

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 04-Aug-2021

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Describe steps of research process in detail.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Commonly used softwares in statistics.
3. Tests of significance.
4. Discuss historical background of Research in Ayurveda with example.
5. Define Research, explain quantitative research.
6. Presentation of data.
7. Discuss about observational and interventional studies.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Median.
9. Pure and applied research.
10. DHARA.
11. Mode.
12. Research tools in Ayurveda.

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 19-Aug-2023

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Define research. Classify and discuss importance of research and need of research in Ayurveda.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Explain statistics in Ayurveda with example.
3. Discuss measures of central tendency.
4. Applied Research.
5. Classification of Data.
6. Scientific Writing (IMRAD).
7. Discuss variability and its measurement.

SHORT ANSWERS

5 x 2 = 10 Marks

8. DHARA.
9. Name four parametric tests.
10. Pie chart.
11. Paryaya of Anusandhana.
12. Qualitative research.

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 30-Jun-2022

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Explain measures of central tendency and variability.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Explain different Pramanas and their utility in Ayurveda research.
3. Discuss Evidence based medicine with example.
4. Differentiate qualitative and quantitative research.
5. Define Anusandhana, its synonyms, explain historical background of Research in Ayurveda.
6. Collection of data.
7. Explain about the scope and importance of medical statistics.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Bioinformatics.
9. Types of variable.
10. Steps of Research.
11. IMRAD format of scientific writing.
12. Non-parametric tests.

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 01-Dec-2021

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Define Research (Anusandhana) and Research methodology. Discuss Research process in detail. Give an example.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Explain the role of Anumana pramana in Research.
3. Explain about the Collection and Presentation of Data.
4. Emphasize the importance of Ethics in Research.
5. Write a note on (a) Average, (b) Percentile, (c) Mean, (d) Median, (e) Mode.
6. Explain about the Historical background of Research in Ayurveda with suitable examples.
7. What are parametric and non-parametric tests? Discuss any one parametric test with example.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Standard error
9. Range
10. Sampling
11. Pie chart
12. Types of data

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 06-Nov-2020

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Define Research (Anusandhana). Mention its types and synonyms. Discuss Qualitative and Quantitative Research with example.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Define Probability. Explain Tests of Significance.
3. Define Data mining. Explain its importance.
4. Define Data, types. Discuss Presentation of Data.
5. Discuss Scientific Research Article Writing.
6. Define Variability. Explain Standard Deviation and Standard Error.
7. Emphasize the importance of Ethics in Research.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Chaturvidha Pramana in Research
9. Population and Sampling
10. Evidences of Research in Ayurveda
11. Student's 't' test
12. Arithmetic mean

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 22-Oct-2022

Time: 90 minutes

Max. Marks: 50 Marks

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 x 10 = 10 Marks

1. Briefly describe difference between null hypothesis and alternate hypothesis, enumerate in detail about applied research and literary research with suitable example.

SHORT ESSAYS

6 x 5 = 30 Marks

2. Importance of ethics in research.
3. Standard error and Range.
4. Discuss statistics in Ayurveda.
5. Concept of evidence-based medicine.
6. Collection and Presentation of data.
7. Write a brief note on pure and applied research with suitable example.

SHORT ANSWERS

5 x 2 = 10 Marks

8. Median.
9. Sample.
10. Qualitative data.
11. Pub Med.
12. Scope of research in Ayurveda.

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - SEPT-2018

Time: 90 minutes

Max. Marks: 50 Marks

Research Methodology and Medical Statistics (Revised Scheme 4)

Q.P. CODE: 3030

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

5+5+5 = 15 Marks

1. Define Anusandhana. Explain its scope and need in Ayurveda. Explain the importance and utility of Research in Ayurveda.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Explain Parametric and Non Parametric tests.
3. Explain about importance of Literature review in Research.
4. Narrate Role of Pratyaksha pramana in research with one example.
5. Define Medical Statistics and explain methods of Collection of Data.
6. Emphasize importance of Evidence based medicine in Ayurveda.

SHORT ANSWERS

5 x 2 = 10 Marks

7. Standard deviation
8. Statistical softwares
9. Mode
10. Normal distribution
11. Percentile calculation

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 26-Dec-2023

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Scope, need and importance of Research Methodology in Ayurveda

SHORT ESSAYS

6 x 5 = 30 Marks

2. Bioinformatics
3. Role of pramanas in research
4. Historical background of research in Ayurveda
5. Definition, scope and importance of Biostatistics
6. Explain measures of central tendency with examples
7. Tests of significance

SHORT ANSWERS

5 x 2 = 10 Marks

8. Standard deviation
9. Normal distribution
10. Ayush Research Portal
11. Ethics related to animals
12. Sample

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 04-Aug-2021

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Explain historical background or research in Ayurveda

SHORT ESSAYS

6 x 5 = 30 Marks

2. Types of research
3. Aims and objects
4. Research tools
5. Scientific writing
6. Ayush research portal
7. Definition of statistics

SHORT ANSWERS

5 x 2 = 10 Marks

8. Data
9. Average
10. Mode
11. Pubmed
12. Evidence based medicine

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 19-Aug-2023

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Define Anusandhana and write its synonyms. Discuss the scope and need of research in Ayurveda

6 x 5 = 30 Marks

SHORT ESSAYS

2. Discuss steps of research process
3. Importance of ethics in research
4. Explain the concept of evidence based medicine and scientific writing
5. What is sampling? Discuss sampling methods
6. Measures of Central tendency and write its importance
7. Write difference between parametric and non parametric tests

5 x 2 = 10 Marks

SHORT ANSWERS

8. Applied research
9. DHARA
10. Percentile
11. Range
12. Null Hypothesis

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 06-Aug-2024

Time: 90 minutes

Max. Marks: 50

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Elaborate scope, need and importance of research in Ayurveda

SHORT ESSAYS

6 x 5 = 30 Marks

2. Quantitative research method
3. Objectives of research
4. Variable
5. Write short essay on data
6. Standard deviation
7. Normal distribution

SHORT ANSWERS

5 x 2 = 10 Marks

8. What is DHARA?
9. Define mixed method research
10. Define Median
11. Define percentile
12. Define data mining

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 30-Jun-2022

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Explain Pramanas as research tools

SHORT ESSAYS

6 x 5 = 30 Marks

2. Anveshana
3. Selection of topics for research
4. Interventional research
5. Observational research
6. Evidence based medicine
7. Research management informatics system

SHORT ANSWERS

5 x 2 = 10 Marks

8. Importance of medical statistics
9. Tabular presentation
10. Graphical presentation
11. Standard deviation
12. Statistical softwares

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

SHORT ESSAYS

6 x 5 = 30 Marks

2. Write about presentation of data.
3. Describe the properties of a normal curve
4. Briefly describe the analytical observational study designs
5. Write about variability and its measurements.
6. Describe the measures of location used in medical research
7. What are non-parametric tests?

SHORT ANSWERS

5 x 2 = 10 Marks

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

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 01-Dec-2021

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. Define Research. Explain synonyms of Anusandhana. Discuss scope and importance of research in Ayurveda

6 x 5 = 30 Marks

SHORT ESSAYS

2. Discuss pure and applied research with example
3. Discuss research tools and their importance in clinical research
4. Define variability and explain its measures
5. Discuss research process
6. Presentation of Data
7. Discuss Parametric and Non-Parametric tests

5 x 2 = 10 Marks

SHORT ANSWERS

8. Median
9. Standard deviation
10. Pub Med
11. Percentile
12. Define Hypothesis

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.A.M.S Degree Examination - 22-Oct-2022

Time: 90 minutes

Max. Marks: 50 Marks

RESEARCH METHADODOLOGY AND MEDICAL STATISTICS (RS - 5)

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. What are Observational Study designs used in medical research? Describe them stating their major advantages and disadvantages

6 x 5 = 30 Marks

SHORT ESSAYS

2. What are the different types of articles found in scientific journals? Describe IMRAD format?
3. Describe the principles of Ethics that Governs Medical Research
4. What are the important measures of Dispersion? Describe Standard Deviation
5. What are the Graphical methods of representation of Medical data?
6. What are the steps in Testing of Hypothesis?
7. What are the sampling methods used in medical research?

5 x 2 = 10 Marks

SHORT ANSWERS

8. Define Anumana with its use in Ayurvedic research
9. Databases used in Ayurvedic research
10. Define Anusandhana
11. Constitution of Institutional Ethics Committee (IEC)
12. What is Bias?
