

[LK 1388]

MAY 2017

Sub.Code :1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions:

(1 x 15 = 15)

1. Explain the research tools in detail.

II. Write Notes on:

(5 x 5 = 25)

1. Explain the introduction to probability and test of Significance.
2. Explain the parametric and non- parametric tests.
3. Write the evidence based medicine and scientific writing.
4. Write the formulation of Hypothesis.
5. Explain the measures of location and the measure of central tendency.

III. Short Answers on:

(5 x 2 = 10)

1. Write the importance of ethics in research.
2. What is Graphical presentation of data?
3. Write the types of research.
4. Write about sample.
5. Write the definition and scope of medical statistics.

[LL 1388]

OCTOBER 2017

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION

PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions: (1 x 15 = 15)

1. Explain the research process in detail.

II. Write Notes on: (5 x 5 = 25)

1. Explain variability and measurement.
2. Explain the evidence of research in Ayurveda classics.
3. Write the importance of the data mining and its application in medical system.
4. Write the measures of location.
5. Explain the parametric and non – parametric tests.

III. Short Answers on: (5 x 2 = 10)

1. Write the importance of ethics in research.
2. What is arithmetic mean?
3. Write the scope of research in Ayurveda.
4. Write about anumana in research.
5. What is a normal distribution?

[LM 1388]

MAY 2018

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions:

(1 x 15 = 15)

1. Explain aims, objectives, materials, methods, formulation, hypothesis of process of research.

II. Write Notes on:

(5 x 5 = 25)

1. Explain the types of research.
2. Explain the common statistical terms and notations.
3. Write the scope, need importance and utility of research in Ayurveda.
4. Write the commonly used statistical soft-wares.
5. Explain variability and measurement.

III. Short Answers on:

(5 x 2 = 10)

1. Write the measure of central tendency.
2. What is bioinformatics centre?
3. Write the etymology, definition and synonyms of the word research.
4. Write the importance of ethics in research.
5. Write is Tabular presentation of data.

[LN 1388]

OCTOBER 2018

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION

PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions: (1 x 15 = 15)

1. Explain scientific writing.

II. Write Notes on: (5 x 5 = 25)

1. Write the definition and importance of Ethics.
2. What is PubMed?
3. What is Categorical Variable?
4. What are the laws of Probability?
5. Write the uses of Placebo.

III. Short Answers on: (5 x 2 = 10)

1. Write the derivation and definition of Statistics.
2. What are the obstacle to EBM?
3. Write about the common statistical term Population.
4. Write the limitation of statistics.
5. What are the Pramaanaas used as a research tool?

[LO 1388]

MAY 2019

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions:

(1 x 15 = 15)

1. Explain the role of Pramanas as Research Tools.

II. Write Notes on:

(5 x 5 = 25)

1. Write the formulation of Hypothesis.
2. Write the uses of Placebo.
3. What are the methods of presentation of data?
4. Calculate the arithmetic mean of marks scored by the students in 7 class test from the following 87, 69, 59, 77, 82, 64, 57.
5. Write the difference between parametric and Non parametric.

III. Short Answers on:

(5 x 2 = 10)

1. Write the application of Data mining.
2. What is research misconduct?
3. Write the merits and demerits of Mode.
4. Write the limitation of statistics.
5. What are the obstacle to EBM?

[LP 1388]

OCTOBER 2019

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions: (1 x 15 = 15)

1. Explain Evidence based Medicine.

II. Write Notes on: (5 x 5 = 25)

1. Explain Research Management Information System.
2. Explain the types of Diagrams.
3. Write the uses of Placebo.
4. Write the difference between parametric and Non parametric.
5. Classification of Data

III. Short Answers on: (5 x 2 = 10)

1. Write the definition of Research and its Aims.
2. Write about anumana in research.
3. What is arithmetic mean?
4. Write the limitation of statistics.
5. Write the application of Data Mining.

[LQ 1388]

**DECEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 1388

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION

PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Maximum : 50 Marks

Answer all Questions

I. Essay Questions:

(1 x 15 = 15)

1. Explain Anveshana, review of Literature, Observational research in detail.

II. Write Notes on:

(5 x 5 = 25)

1. Write importance of medical Statistics.
2. Collection of Data.
3. Evaluation and assessment of Hypothesis.
4. Dravya, Guna, Karma, Parikshana Paddathi.
5. Write classification of Variability.

III. Short Answers on:

(5 x 2 = 10)

1. Explain Data.
2. Explain Histogram.
3. Chi Square Test.
4. Probability.
5. Statistics in Ayurveda.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 1021]

OCTOBER 2021

Sub. Code: 1388

(OCTOBER 2020 & MAY 2021 EXAM SESSION)

FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION

**(For the candidates admitted from 2012-2013 to 2015-2016 and new regulations
2016-2017 onwards)**

PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code : 641388

Time: 90 Minutes

Answer ALL questions

Maximum : 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Role of Pramana Pareeksha as Research Tools, its types and their importance in research.

II. Write Notes on:

(5 x 5 = 25)

1. Research Design; preclinical and clinical.
2. Research Process.
3. Scope and importance of Statistics.
4. Measures of Variability.
5. Techniques of Data Mining.

III. Short Answers on:

(5 x 2 = 10)

1. Ethics.
2. Yukti pramana.
3. Quantitative Research.
4. Pie Diagram.
5. Mean Deviation.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0322]

**MARCH 2022
(MAY 2021 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS
Q.P. Code : 641388**

Time: 90 Minutes

Answer ALL questions

Maximum : 50 Marks

I. Essay Questions: (1 x 15 = 15)

1. Write definition and synonyms of the word Research and Explain the Research process in detail.

II. Write Notes on: (5 x 5 = 25)

1. Types of Variability.
2. Measures of Central Tendency.
3. Steps in Testing of Hypothesis.
4. Explain about EBM.
5. Application of Pancha Avayaya Vakya in Research.

III. Short Answers on: (5 x 2 = 10)

1. Differentiate Cross-sectional and Longitudinal studies.
2. What is a Pilot Study?
3. What is a Variable?
4. What is Plagiarism?
5. Define Siddhanta.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0522]

**MAY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS
Q.P. Code : 641388**

Time: 90 Minutes

Answer ALL questions

Maximum : 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Role of Pramana Pareeksha as Research Tools, its types and their importance in research.

II. Write Notes on:

(5 x 5 = 25)

1. Research Design, preclinical and clinical.
2. Research Process.
3. Scope and importance of Statistics.
4. Measures of Variability.
5. Techniques of Data Mining.

III. Short Answers on:

(5 x 2 = 10)

1. Ethics.
2. Yukti pramana.
3. Quantitative Research.
4. Pie Diagram.
5. Mean Deviation.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0922]

**SEPTEMBER 2022
(MAY 2022 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code : 641388

Time: 90 Minutes

Answer ALL questions

Maximum : 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Definition of the term Research, Anusandhana. Explain the need of Research in the field of Ayurveda.

II. Write Notes on:

(5 x 5 = 25)

1. Different types of referencing and bibliography.
2. Explain Tadvidya Sambhasha and Vada marga.
3. Defining research problem and formulation of Hypothesis.
4. Literature Review.
5. Classification of Data.

III. Short Answers on:

(5 x 2 = 10)

1. Student T test.
2. Tantra Yukti.
3. Types of Research.
4. Data mining.
5. Udaharana.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 1222]

**DECEMBER 2022
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code : 641388

Time: 90 Minutes

Answer ALL questions

Maximum : 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Explain the importance of pramanas in Research Methodology.

II. Write Notes on:

(5 x 5 = 25)

1. Write the methods of communication of Research.
2. Write about parametric and non-parametric tests.
3. What is standard deviation?
4. Write the role of pramanas as research tools.
5. Write any statistical softwares.

III. Short Answers on:

(5 x 2 = 10)

1. What is standard error?
2. Write the merits of mode.
3. What is the utility of research in Ayurveda?
4. Write the formation of Hypothesis.
5. What is Median?

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0623]

**JUNE 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code: 641388

Time: 90 Minutes

Answer ALL questions

Maximum: 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Define research (anusandhana) and its synonyms. Explain the need of research in Ayurveda.

II. Write Notes on:

(5 x 5 = 25)

1. Explain the roles of ethics in research.
2. Explain the importance and evidence of statistics in Ayurveda.
3. Define research problem and formulation of hypothesis.
4. Explain presentation of data.
5. Explain parametric and non-parametric tests.

III. Short Answers on:

(5 x 2 = 10)

1. Cohort study.
2. Udaharana.
3. Standard deviation.
4. Analysis of Variance.
5. SPSS.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0124]

**JANUARY 2024
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code: 641388

Time: 90 Minutes

Answer ALL questions

Maximum: 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Explain the usage of pramana as research tools.

II. Write Notes on:

(5 x 5 = 25)

1. Explain IMRD.
2. Explain the various types of research.
3. Explain the research process.
4. Explain the methods of data sampling.
5. Define variability and explain its measurement.

III. Short Answers on:

(5 x 2 = 10)

1. RCT.
2. Tadvidya sambasha.
3. Student T test.
4. Placebo.
5. Percentile.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0624]

**JUNE 2024
(MAY 2024 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
New Regulations 2016-2017 onwards)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code: 641388

Time: 90 Minutes

Answer ALL questions

Maximum: 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Explain the importance of IT in data mining and important research data portals concerned with Ayurveda and contemporary medical science.

II. Write Notes on:

(5 x 5 = 25)

1. Methods of communication in research process.
2. Observational and interventional types of research.
3. Concept of scientific writing.
4. Scope of medical statistics.
5. Presentation of data.

III. Short Answers on:

(5 x 2 = 10)

1. Define statistics.
2. Types of data collection.
3. Variable.
4. Percentile.
5. Median.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0725]

**JULY 2025
(MAY 2025 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted from 2012-2013 to 2015-2016 and
2016-2017 to 2019-2020)**

PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS

Q.P. Code: 641388

Time: 90 Minutes

Answer ALL questions

Maximum: 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Define Anusandhana with its types and the utility of Pramana in research.

II. Write Notes on:

(5 x 5 = 25)

1. Collection of data.
2. Measures of variability.
3. Application of Pancha Avayava Vakya in research.
4. IMRD.
5. Statistical software.

III. Short Answers on:

(5 x 2 = 10)

1. Hypothesis.
2. Analysis of variance.
3. Importance of Ethics in research.
4. Normal distribution.
5. Obstacles to EBM.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BAMS 0825]

**AUGUST 2025
(MAY 2025 EXAM SESSION)**

Sub. Code: 1388

**FINAL PROFESSIONAL B.A.M.S. DEGREE EXAMINATION
(For the candidates admitted in 2020-2021)
PAPER VIII – RESEARCH METHODOLOGY AND MEDICAL STATISTICS**

Q.P. Code: 641388

Time: 90 Minutes

Answer ALL questions

Maximum: 50 Marks

I. Essay Questions:

(1 x 15 = 15)

1. Explain the importance of Research in Ayurveda: scope and utility.

II. Write Notes on:

(5 x 5 = 25)

1. Definition and synonyms of word research.
2. Explain the importance of data mining.
3. Explain the ethical aspects related to human and animal experiments.
4. Brief note on: parametric and non-parametric tests.
5. Write short note on commonly used statistical software.

III. Short Answers on:

(5 x 2 = 10)

1. Placebo.
2. Chi square test.
3. Types of research.
4. Vada marga.
5. Plagairism.
