

[LN 3101]

OCTOBER 2018

Sub. Code: 3101

**M.D. (SIDHA) DEGREE EXAMINATION**

**(For the candidates admitted from the academic year 2016-2017)**

**FIRST YEAR**

**ALL BRANCHES**

**PAPER I – RESEARCH METHODOLOGY & BIO-MEDICAL STATISTICS**

*Q.P. Code : 323101*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. List the sampling methods and discuss in detail the random sampling method.
2. Write in detail about parametric and non parametric test and its advantages and disadvantages.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Mann-Whitney 'U' test.
2. Journal critique.
3. What is scatter diagram? Explain its usefulness .
4. What are the tests of significance?
5. Standard deviation.
6. Discuss the ethical principal in clinical research.
7. Clinical trial registration.
8. Sampling error.
9. Explain about demographic data.
10. Case control study.

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[LO 3101]

MAY 2019

Sub. Code: 3101

**M.D. (SIDHA) DEGREE EXAMINATION**

**(For the candidates admitted from the academic year 2016-2017)**

**FIRST YEAR**

**BRANCH I, II, VI–VIII & IX**

**PAPER I – RESEARCH METHODOLOGY & BIO-MEDICAL STATISTICS**

*Q.P. Code : 323101*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss various data collection methods with suitable examples.
2. Discuss in detail the essential components of a research proposal and what are the factors affecting the research design?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Student T- test and its importance.
2. Confidence interval.
3. Distinguish parametric and non parametric test.
4. Type I and Type II errors.
5. Explain in brief about Skewness and kurtosis.
6. ANOVA.
7. Cohort study.
8. Vital statistics.
9. Bias.
10. The following are the ages admitted in a ward-24, 32, 19, 27, 44, 42, 32, 55, 53, find its mean, median, mode, range and standard deviation.

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[LP 3101]

OCTOBER 2019

Sub. Code: 3101

**M.D. (SIDDHA) DEGREE EXAMINATION**

**(For the candidates admitted from the academic year 2016-2017)**

**FIRST YEAR**

**ALL BRANCHES**

**PAPER I – RESEARCH METHODOLOGY & BIO-MEDICAL STATISTICS**

*Q.P. Code : 323101*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss about the different types of research.
2. Discuss the types of qualitative research design.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Describe the four phases of a clinical trial.
2. Explain the importance of randomization.
3. Explain the binominal distribution.
4. Describe the chi-square test in detail with its merits and demerits.
5. Referencing styles – Vancouver.
6. Hypothesis testing.
7. Measures of morbidity.
8. Distinguish between prevalence and incidence.
9. Data collection methods.
10. Measures of dispersion.

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[LQ 3101]

NOVEMBER 2020  
(MAY 2020 SESSION)

Sub. Code: 3101

**M.D. (SIDHA) DEGREE EXAMINATION**

**(For the candidates admitted from the academic year 2016-2017)**

**FIRST YEAR**

**BRANCH I, II, VI –VIII & IX**

**PAPER I – RESEARCH METHODOLOGY & BIO-MEDICAL STATISTICS**

*Q.P. Code : 323101*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write briefly about Pre - clinical studies.
2. Explain briefly the different steps involved in research process.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Bias in clinical research.
2. Measures of disease frequency.
3. Ethics in clinical research.
4. Write about research regulatory bodies in India.
5. Cohort study.
6. Mean, Median and Mode.
7. Measurement errors in clinical research.
8. AYUSH.
9. Sampling techniques.
10. Writing the Dissertation.

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

**[MDSIDDHA 1021]**

**OCTOBER 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 3101**

**M.D. (SIDDHA) DEGREE EXAMINATION  
FIRST YEAR - BRANCH I, II, IV,V,VI,VII,VIII & IX  
PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS  
Q.P. Code : 323101**

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about national guidelines for ethics and regulations in Biomedical research.
2. Enumerate various types of Interviews and explain about Interviewing process.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Properties of standard normal curve.
2. Pedagogic methods.
3. Resources of literature review.
4. Vital statistics.
5. Various templates in protocol.
6. Explain types of questions with examples.
7. Survival analysis.
8. Institutional Ethical Committee.
9. Guidelines for animal studies.
10. Differences between Reference and Bibliography.

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

**[MD(SIDDHA) 1221]**

**DECEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 3101**

**M.D. (SIDDHA) DEGREE EXAMINATION  
FIRST YEAR - BRANCH I, II, IV, V, VI, VII, VIII & IX  
PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS  
*Q.P. Code : 323101***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about experimental research design.
2. Explain the principles of ethics in bio-medical research.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Use of statistical software for data analysis.
2. Random sampling methods.
3. Describe the features of an ideal table.
4. Writing a research report.
5. Informed consent.
6. Observational research designs.
7. Mentorship.
8. What are the different measures of central tendencies.
9. National Health Programmes.
10. Principles of data collection.

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

**[MD(SIDDHA) 0522]**

**MAY 2022**

**Sub. Code: 3101**

**(OCTOBER 2021 EXAM SESSION)**

**M.D. (SIDDHA) DEGREE EXAMINATION**

**(For candidates admitted from 2017-2018 onwards)**

**FIRST YEAR - BRANCH I, II, IV, V, VI, VII, VIII & IX**

**PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS**

***Q.P. Code : 323101***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Briefly describe the different steps involved in a research process:-.
2. Enumerate various types of literature reviews and sources of a literature:-.

**II. Write notes on:**

**(10 x 6 = 60)**

1. What are measures of association?
2. Stratified random samplings.
3. Case Record Form.
4. Pre experimental designs.
5. Pedagogic methods.
6. Validity.
7. Protocol writing.
8. What is National Accreditation Board for Hospitals?
9. ICMR.
10. Presentation of data.

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

**[MD(SIDDHA) 0822]**

**AUGUST 2022  
(MAY 2022 EXAM SESSION)**

**Sub. Code: 3101**

**M.D. (SIDDHA) DEGREE EXAMINATION  
(For candidates admitted from 2017-2018 onwards)  
FIRST YEAR - BRANCH I, II, IV, V, VI, VII, VIII & IX  
PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS  
*Q.P. Code : 323101***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write briefly about analytical studies.
2. Briefly explain about difference between Descriptive statistics and Inferential statistics.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Review of Literature.
2. Qualitative and quantitative data.
3. Case Record Form (CRF).
4. Drug standardization.
5. Scientific presentation(Oral).
6. Pedagogic methods.
7. Chi-square test.
8. Double blind method.
9. Good Clinical Practice (GCP).
10. Pilot study.

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

**[MD(SIDDHA) 0323]**

**MARCH 2023  
(OCTOBER 2022 EXAM SESSION)**

**Sub. Code: 3101**

**M.D. (SIDDHA) DEGREE EXAMINATION  
(For candidates admitted from 2017-2018 onwards)  
FIRST YEAR - BRANCH I, II, IV, V, VI, VII, VIII & IX  
PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS**

***Q.P. Code: 323101***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about Descriptive studies and Analytical studies.
2. Explain briefly about National Clinical Research regulatory bodies.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Presentation of qualitative data.
2. Uses of sampling.
3. Scales of measurement.
4. Formulating research question.
5. Scientific visual presentation.
6. Meta analysis.
7. Parametric tests.
8. Measures of association in Cohort studies.
9. Biomedical literature search and organization.
10. Hypothesis.

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

**[MD(SIDDHA) 0823]**

**AUGUST 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 3101**

**M.D. (SIDDHA) DEGREE EXAMINATION  
(For candidates admitted from 2017-2018 onwards)  
FIRST YEAR - BRANCH I, II, IV, V, VI, VII, VIII & IX  
PAPER I – RESEARCH METHODOLOGY AND BIO-MEDICAL STATISTICS**

***Q.P. Code: 323101***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Enumerate various measures in epidemiology.
2. Explain in detail about clinical research designs which are suitable for assessing traditional medicines.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Scientific oral presentation.
2. Case Record Form.
3. Presentation of quantitative data.
4. Writing research grants.
5. Types of pre clinical studies.
6. Measurement errors.
7. Research studies on the basis of number of variables under study.
8. Level of significance and power of the test.
9. IAEC.
10. Characteristics of a good research problem.

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