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

[AHS 1022]

OCTOBER 2022

Sub. Code:2801

M.Sc. AUDIOLOGY

FIRST SEMESTER (Candidate admitted from 2021-2022 onwards) PAPER I - RESEARCH METHODS, EPIDEMIOLOGY AND STATISTICS

Q.P. Code: 282801

Time: Three hours	Answer ALL Questions	Maximum: 100 Marks

I. Elaborate on:

- 1. Describe various research designs and discuss in detail about the case control study and its merits and demerits with an example.
- 2. Structure, presentation and writing style of research report.

II. Write notes on:

- 1. Sampling Techniques.
- 2. Explain various Central Tendency with examples.
- 3. Discuss about Null hypothesis, level of significance, power of test and P value.
- 4. Write briefly on Non probability sampling.
- 5. Describe bias in epidemiological studies.
- 6. Discuss the five major elements of medical ethics.
- 7. Rank Correlation.
- 8. Effect Modification.
- 9. Blinding in a Clinical Trial.
- 10. Scatter diagram.

(2x20=40)

(10x6=60)

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

[AHS 0523] MAY 2023 Sub. Code: 2801

M.Sc. AUDIOLOGY DEGREE EXAMINATION FIRST SEMESTER (From 2021-2022 onwards) PAPER I – RESEARCH METHODS, EPIDEMIOLOGY AND STATISTICS

Q.P. Code: 282801

Time: Three hours	Answer ALL Questions	Maximum: 100 Marks
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I. Elaborate on:

- 1. Describe the basic steps involved in conducting randomized controlled trials and discuss about the types of R.C.T.
- 2. Explain in detail about parametric and non-parametric test with an example and write its application.

II. Write notes on:

- 1. How will you interpret data using the normal probability curve?
- 2. Descriptive study design.
- 3. Time series Analysis.
- 4. Principles of sample size calculation.
- 5. Standard score and its importance in the field of speech and hearing.
- 6. Average, Mean, Median and Mode.
- 7. Methods of research in behavioural sciences.
- 8. Presentation of data.
- 9. Distinguish between privacy and confidentiality.
- 10. Confidence interval.

(2x20=40)

(10x6=60)

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M.Sc. AUDIOLOGY

FIRST SEMESTER (From 2021-2022 onwards) PAPER I – RESEARCH METHODS, EPIDEMIOLOGY AND STATISTICS

Q.P. Code: 282801

Time: Three hours	Answer ALL Questions	Maximum: 100 Marks
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I. Elaborate on:

- 1. a) What are the differences between Experimental studies and Observational studies?
 - b) Discuss selection of controls in case-control studies.
- 2. a) Principle of probability sampling.
 - b) Types of probability sampling.
 - c) Merits and demerits of each of the sampling techniques.

II. Write notes on:

(10x6=60)

(2x20=40)

- 1. Ecological study.
- 2. Charts and Graphs.
- 3. Systematic error.
- 4. Ethics review of research proposals.
- 5. Reliability and Validity.
- 6. Elements of an Informed Consent
- 7. Steps in developing a research question.
- 8. Skewness and Kurtosis.
- 9. Blinding.
- 10. Analysis of variance.
