

**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:**

**(2x20=40)**

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:**

**(10x6=60)**

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.

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