

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 2828

**ALL M.Sc. COURSES AND M.OPTOM, EXCLUDING M.Sc. BIostatistic,
M.Sc. EPIDEMIOLOGY AND M.Sc. PUBLIC HEALTH.**

FIRST YEAR

**PAPER I – PRINCIPLES OF EPIDEMIOLOGY, RESEARCH METHODOLOGY,
BIostatistics AND MEDICAL ETHICS**

Q.P. Code : 282828

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on: (2 x 20 = 40)

1. Describe the various methods of sampling in detail.
2. Is single Research design suitable for all studies? Why? Describe the types of epidemiological designs in detail. Write the advantage and disadvantage of each study design.

II. Write Short Notes on: (10x6 = 60)

1. Outbreak investigation.
2. Differentiate: Primary Data against Secondary Data.
3. Non-parametric tests.
4. Bias.
5. What is range, standard deviation and normal distribution?
6. Validity and Reliability of Instrument.
7. Ethics in Research.
8. Steps involved in testing Hypothesis.
9. Confidence intervals and p values.
10. How will you determine optimal sample size?
