

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

[AHS 0222]

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

Sub. Code: 3001

**M.Sc. EPIDEMIOLOGY
FIRST YEAR (From 2011-2012 onwards)
PAPER I – PRINCIPLES OF EPIDEMIOLOGY AND BIostatISTICS
*Q.P. Code : 313001***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Enumerate the advantages and disadvantages of case control studies. Discuss in detail, the various biases that can occur in a case control study and the methods of preventing them.
2. Explain the terms: Reference population, External population, Actual population and Sample with suitable examples.

II. Write Short Notes on:

(10x6 = 60)

1. Scatter diagram.
2. Epidemiological approach in planning and evaluation of health care.
3. Ethical considerations while developing a research question.
4. External validity.
5. Numbers Needed to Treat (NNT).
6. Information Bias.
7. Confidence interval.
8. Cross –over design.
9. Kappa coefficient.
10. Requirements of a screening test.
