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

[AHS 0523]   **MAY 2023**   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. Define Epidemiology. What are the uses of Epidemiology? Describe various study designs, key features and relative advantages and disadvantages of each design.

2. What is 'Protocol Writing' in Research? What are the common components in protocol? Write a sample protocol.

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

1. Natural history of disease.
2. Measures of association.
3. Steps involved in designing a questionnaire.
4. Operations Research.
5. ICMR guidelines and IEC (Institutional Ethics Committee).
6. What is Blinding? List the types of blinding with brief note on each.
7. What is Odds Ratio? Explain briefly its application.
8. Measures of central tendency.
9. Alpha and Beta errors.
10. Bioethics.

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