

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

[AHS 0321]

**MARCH 2021**

**Sub. Code: 2101**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. SPORTS AND FITNESS PSYCHOLOGY**

**FIRST YEAR (From 2018-2019 onwards)**

**PAPER I – BIO-STATISTICS AND RESEARCH: EPIDEMIOLOGY,  
BIO-STATISTICS AND MEDICAL ETHICS**

*Q.P. Code : 282101*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. a) What are the differences between observational studies and experimental studies?  
b) Explain a cohort study with a suitable example.
2. Develop a protocol for conducting a research in sports topic and explain the importance of the study.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Bias and Random Error.
2. Validity and Reliability.
3. Measurements in Sports Research.
4. Nonparametric Tests.
5. Incidence of Disease.
6. Research Objectives & Hypothesis.
7. Significance of P value.
8. Sample size.
9. Data Management.
10. Institutional Review Board.

\*\*\*\*\*