

[LP 1019]

OCTOBER 2019

Sub. Code: 2001

M.Sc. SPORTS AND FITNESS NUTRITION EXAMS

FIRST YEAR

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

Q.P. Code: 282001

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Medical Ethics in Research.
2. Develop the protocol with an appropriate example and briefly explain it.

II. Write Short notes on:

(10 x 6 = 60)

1. Sampling Techniques.
2. Critical area and Critical Region.
3. Paired t test.
4. Standard error.
5. Population Mean.
6. ANOVA.
7. Case control Study.
8. Alternative Hypothesis.
9. RCT.
10. Infant Mortality Rate.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2001

(OCTOBER 2020 EXAM SESSION)

M.Sc. SPORTS AND FITNESS NUTRITION

FIRST YEAR (From 2018-2019 onwards)

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

Q.P. Code : 282001

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.
