

2026

Four Year Under Graduate Programme (FYUGP)

6th Semester Examination (Under NEP)

(Session 2023-24)

FOOD AND NUTRITION (Major)

Paper Code : FNTMJ MC-15

(Nutritional Epidemiology and Biostatistics)

Full Marks : 30

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *four* questions :

2×4=8

(a) What is meant by the 'Iceberg Phenomenon of a Disease'?

(b) Define primary data and secondary data with examples.

(c) State the objectives of a cross-sectional study.

(d) Differentiate between descriptive statistics and inferential statistics.

(e) Write the differences between 'ratio' and 'proportion'.

P.T.O.

- (f) Calculate the arithmetic mean and identify the mode for the given dataset: 26, 39, 26, 20, 26, 29.

2. Answer any *three* questions :

4×3=12

- (a) Explain the factors responsible for the emergence and re-emergence of diseases in communities.

- (b) Append a comparative note between probability and non-probability sampling.

- (c) What do you understand by case-control study? Write its advantages and limitations. 1+3

- (d) Describe any one method of data collection.

- (e) Find the standard deviation of the following dataset: 8, 9, 11, 7, 6, 5, 12, 13, 14.

- (f) Explain the concepts of incidence and prevalence of a disease with examples.

3. Answer any *one* question :

10×1=10

- (a) Classify diseases into acute and chronic types with appropriate examples. Explain how communicable diseases are transmitted among populations. Differentiate between epidemic and pandemic diseases. 4+4+2

- (b) What is meant by a statistical hypothesis? Explain the principle and applications of Student's *t*-test. Discuss the purpose and advantages of Analysis of Variance (ANOVA). 2+4+4