

2026

Four Year Under Graduate Programme (FYUGP)

6th Semester Examination (Under NEP)

(Session 2023-24)

FOOD AND NUTRITION (Major)

Paper Code : FNTMJ MC-13

(Food Toxicology and Immunology)

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) Name two bacterial toxins causing food poisoning.

~~(b)~~ What is a live attenuated vaccine? Give one example.

~~(c)~~ What are aflatoxins?

(d) Define monoclonal antibody.

~~(e)~~ What is meant by herd immunity?

~~(f)~~ What is epidemic dropsy?

P.T.O.

2. Answer any *three* questions :

4×3=12

- ~~(a)~~ Classify toxic substances with suitable examples.
- ~~(b)~~ Discuss the toxic effects of pesticides on human health.
- (c) Write a short note on major histocompatibility complex (MHC).
- (d) Outline the properties of immunoglobulins (isotype, allotype and idiotype).
- (e) Explain the principle of ELISA and mention its applications.
- ~~(f)~~ Compare humoral and cellular immunity.

3. Answer any *one* question :

10×1=10

- (a) Discuss the structure and functions of antibodies. Describe different classes of immunoglobulins with suitable examples.

4+6

- ~~(b)~~ What is innate immunity? Briefly describe the external and internal defence systems of the body and explain the factors affecting innate immunity.

2+4+4
