

2025

**M.Sc. 1st Semester Examination
FOOD SCIENCE AND NUTRITION**

Paper : FSNC402X0

(Applied Physiology)



Full Marks : 25

Time : One Hour

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

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. What are diuretics?
2. What is the *p*-type pump?
3. Explain pyknosis.
4. Name any two main phosphoglycerides that are present in mammalian cell membranes.

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Enumerate the structure of immunoglobulin G with a diagram.

P.T.O.

(2)

6. With relevant diagram describe the gaseous exchange in lungs.
7. What is Bohr's effect? How does it influence oxy-hemoglobin dissociation curve? 2+2
8. Define neuronal synapse. Upon a stimulation, how do the impulses conduct through an unmyelinated neuron? 1+3

Group - C

Answer any *one* question : 8×1=8

9. Discuss the role of neurotransmitters on Gastrointestinal reflexes. 8
10. Briefly discuss blood glucose level is regulated in the body? Elaborate the mechanism of urine formation. 3+5

Internal Assessment : 5 marks

