This question paper contains 2 printed pages]

NY-173-2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

ZOOLOGY

Paper-XIII-D

(Animal Physiology-I (General Physiology-I))

(Saturday, 9-12-2023)

Time: 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. := (i) Attempt all questions.
 - (ii) All questions carry equal marks.
 - (iii) Illustrate well labelled diagrams wherever necessary.
- 1. Discuss in detail temperature compensation in homeotherms.

15

Or

What is homeostasis? Explain the physiology of homeostatic mechanism.

2. What is reflex arc? Discuss various properties and types of reflexes. 15

Or

Explain in detail the physiology of modulated transmission of nerve impulses.

P.T.O.

WT	(2) NY—173—202	13
3.	Discuss in detail about physiological polycythemia.	5
	Explain in detail the effects of high altitude on human physiology.	
4.	Explain in detail endocrine response to exercise.	5
	Explain in detail circulatory and cardiovascular charges during muscula	ır
	exercise.	
5.	Write short notes on any three:	5
	(a) Diabetes mellitus	
	(b) Ultrastructure of Synapse	
	(c) Underwater respiration	

(d)

Meditation.