Unit IV

- 8. Explain the physiological adaptation to different environment.
- 9. Explain about the Neurotransmitters:
 - (a) Acetylcholine 7
 - (b) Catecholamines. 7



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M.Sc. (NEP-2020) EXAMINATION, 2025

(Second Semester)

ZOOLOGY

M24-ZOO-202

Comparative Physiology

Time: 3 Hours] [Maximum Marks: 70

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (i)	What is counter current mechanism ?	Unit II		
(ii)	Define osmoregulation with example in different animal group. What do you mean by Thermoregulation?	4. Explain physiological adaptation acclimatizationand acclimation in response to high, lowambient temperature.		
(iv) (v) (vi)	Difference between Stress and Strain.	5. Explain the following terms:(a) Homeothermic animals	4	
` /	What do you mean by single and double circulation of Blood? 7×2=14		5 5	
	Unit I	Unit III		
phys	re a detailed account of comparative siology of digestion and absorption in terent animal group.	6. Give a detailed account of comparative ovariant physiology and differentiation in vertebrates.		
3. (a) (b)	Explain the Respiratory pigment through different phylogenetic group. 7 Pattern of Nitrogen Excretion among	7. Explain the following:(a) Structure and function and classification of Neurons and Glial cells	n 7	
Z-35263	different animal group. 7	(b) Autonomic Nervous System. (5-M25-15/23) Z-35263 P.T.O	7).	