Exam.Code: 0003 Sub. Code: 0255

2121

B.A./B.Sc. (General) Third Semester Zoology

ZOO-301: Biodiversity (Chordates) and Evolution - I

Time allowed: 3 Hours Max. Marks: 36

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

X-X-X

I. Answer the following:a) Differentiate atrium from coelom. b) What is the position and function of endostyle? c) Justify the subphylum Urochordata for Herdmania. d) What is venous heart? e) Define coacervates. f) Explain position and function of Bidder's canal. g) What is convergent evolution? h) Differentiate feeding habit of Branchiostoma from Petromyzon. (8x1)UNIT - I II. Explain circulatory system of *Herdmania*. (7)III. Explain the digestive system of Branchiostoma. (7)UNIT - II IV. a) Explain the breathing mechanism in Labeo. b) Explain the cranial nerves in Labeo. (3,4)V. Classify and write a brief ecological note on the following: a) Protopterus b) Myxine c) Chimaera (7)

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UNIT - III

VI.	Write a note on the following:-	
	a) Female reproductive system of frog	
	b) Ear of frog	(7)
VII.	Classify and write a brief ecological note on the following:-	
	a) Axolotl Larva	
	, b) Necturus	
	c) Hyla	(7)
	<u>UNIT - IV</u>	
VIII.	Discuss various types of evidences of organic evolution.	(7)
IX.	Write a note on the following:-	
	a) Darwinism	
	b) Biogenesis	(7)

X-X-X