2025 (NEP-2020) (2nd Semester) ZOOLOGY (MAJOR/MINOR) (Chordate Biology and Wildlife) Full Marks: 75 Time: 3 hours The figures in the margin indicate full marks for the questions (SECTION : A—OBJECTIVE) (Marks: 10) Tick (✓) the correct answer in the brackets provided: $1 \times 10 = 10$ 1. Which of the following is a characteristic feature of all chordates? (a) Ventral nerve cord (b) Exoskeleton) (c) Notochord ()

2. The blastula of Branchiostoma is of which type?

(a) Discoblastula (b) Coeloblastula

(d) Open circulatory system

(c) Stereoblastula

(d) Morula

3.	The	he larval stage of <i>Herdmania</i> is known as						
	(a)	ascidian tadpole ()						
	(b)	tornaria larva ()						
	(c)	trochophore larva ()						
	(d)	bipinnaria larva ()						
4.	Wh	Thich hormone influences neoteny in amphibians?						
	(a)	Growth hormone ()						
	(b) Adrenaline ()							
	(c) Insulin ()							
	(d)	Thyroxine ()						
5.	Neo	oteny refers to						
	(a) retention of larval features in the adult stage ()							
	(b)	rapid development of reproductive organs in juveniles ()						
	(c)	complete metamorphosis ()						
	(d)	formation of a new species ()						
6.	Whi	hich type of feathers help in insulation by trapping air close to the body?						
	(a)	Flight feathers ()						
	(b)	Down feathers ()						
	(c)	Bristle feathers ()						
	(d)	Filoplumes ()						
7 .	Wha	What is the primary component of feathers?						
	(a)	Chitin ()						
	(b)	Collagen ()						
	(c)	Keratin ()						
	(d) Melanin ()							

8.	The type of uterus found in rabbits is called						
	(a) simplex uterus ()						
	(b) bicornuate uterus ()						
	(c) bipartite uterus ()						
	(d) duplex uterus ()						
9.	. The dodo (Raphus cucullatus) was native to which island?						
(a) Madagascar ()							
	(b)	Mauritius		()		
	(c)	Seychelles		()		
	(d)	Sri Lanka		()		
10.	The Tasmanian tiger was declared officially extinct in						
	(a)	1850	()			
	(b)	1900	()			
	(c)	1936	()			
	(d)	2000	()			
(SECTION : B—SHORT ANSWERS)							
(Marks : 15)							
Write short notes on <i>five</i> of the following, taking at least <i>one</i> from each Unit: 3×5=15							
					Unit—I		
1.	Salient feature of Protochordata						
2.	Retrogressive metamorphosis						
	Unit—II						
3.	Snake venom						
4.	4. Types of scales in pisces						

UNIT-III

- 5. Male reproductive system of rabbit
- 6. Structure of feathers in Columba livia

UNIT-IV

- 7. The roles of World Wide Fund for Nature
- 8. Threats to wildlife

(SECTION : C-DESCRIPTIVE)

(Marks : 50)

Answer five questions, taking at least one from each Unit:

10×5=50

UNIT-I

- 1. Write the classification of Chordata up to classes with examples.
- 2. Explain the larval development in Herdmania.

UNIT—II

- 3. Define sense organs and give a detailed explanation of the sense organs in Scoliodon.
- 4. Describe the poison apparatus and biting mechanism of snake.

UNIT-III

- 5. Write a detailed note on the principle and modes of flight in birds.
- 6. Describe in detail the different patterns and types of bird migration.

Unit—IV

- 7. What is extinction? Provide a detailed account of the recently extinct Great Auk.
- 8. What are Lazarus taxa? Write the roles of IUCN Red List for conservation of wildlife.

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