Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India
Continuous Internal Assessment Test I August, 2025
SEMESTER III

Class : II UG **Time : 2 Hours**
Major/Branch: Zoology **Max. Marks: 60**

23BZOC05 COMPARATIVE ANATOMY & PHYSIOLOGY OF CHORDATES

Course Outcomes:

CO1. Understand the evolution of vertebrates by integrating its structure, function and development.
CO2. Have an overview of the evolutionary concepts including homology and homoplasy, and detailed discussions of major organ systems.
CO3. Understand the abnormal function of animal and human diseases and new methods for treatment.
CO4. Learn generously the life supporting properties and regulation of biological processes by the endocrine glands in the body from conception to adulthood.
CO5. Develop an understanding of the related disciplines, such as cell biology, neurophysiology, pharmacology, biochemistry etc.

Part- A

Circle the correct answer **6x1=6**

1	Which of the following dermal scale is found in cartilaginous fishes? a. Dermal plates b. Cycloid c. Playcoid d. Ctenoid	CO1	K1
2	The presence of the following is one among the fundamental chordate character a. heart b. nerve cord c. pharyngeal gill slits d. nephridia	CO1	K1
3	Melanocytes are located in the a. Stratum corneum b. Stratum germinativum c. Stratum lucidum d. Dermis	CO2	K1
4	In birds uropygial gland is present just above the a. Beak b. Eye c. Tail d. Ear	CO2	K1
5	Single aortic arch is present in a. birds & mammals b. birds& reptiles c. reptiles & mammals d. reptiles& birds	CO3	K2
6	ECG stands for a. electrocardiogram b. electroencephalogram c. enhanced cardiogram d. enhanced encephalogram	CO3	K1

Part-B **3x6 =18**

Answer all questions

Each answer should not exceed 400 words or two pages

7.a	Give an account on functional significance of integument.	CO1	K4
	(or)		
7.b	Comment on epidermal derivatives in chordates.	CO1	K4
8.a	Comment on different types of muscles.	CO2	K4
	(or)		
8.b	Write notes on digestive glands	CO2	K4
9.a	Describe about cardiac cycle and cardiac output.	CO3	K4
	(or)		
9.b	Write notes on blood cells and blood groups.	CO3	K4

Part-C **3x12=36**

Answer any one question

Each answer should not exceed 800 words or four pages

10.a	Compare the anatomy and physiology of integument in chordates.	CO1	K3
	(or)		
10.b	Compare pelvic and pectoral bones in chordates.	CO1	K3
11.a	Describe about different types of nutrients and its biological significance.	CO2	K4
	(or)		
11.b	Explain the functional significance of endocrine glands with neat illustrations.	CO2	K4
12.a	Elucidate the structure and evolution of heart.	CO3	K5
	(or)		
12.b	Write an essay on aquatic and terrestrial respiration.	CO3	K5