

--	--	--	--	--	--	--	--	--	--



GIET UNIVERSITY, GUNUPUR - 765022
M. Sc. (Third Semester) Regular Examinations, December - 2023
22ASPE302 - Biology of Chordata
(Animal Science)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A**(2 x 10 = 20 Marks)**

Q.1. Answer <i>ALL</i> questions	CO #	Blooms Level
a. Write the morphological difference between adult Urochordata and Cephalochordata.	CO1	K3
b. What are the difference by habit, habitat and distribution between myxines and petromyzons?	CO1	K3
c. What are the peculiar characteristics of Gymnophiona?	CO2	K1
d. What is mud nest in Amphibia?	CO2	K1
e. Write the characteristics of Therapsida.	CO3	K1
f. What are the structural modification in bone structure and arrangement of birds for flight adaptation?	CO3	K3
g. What is perching and which structure is modified in birds for perching?	CO3	K2
h. What is volant and arboreal adaptation in mammals?	CO4	K2
i. Write the name of two mammals from each having cursorial and fossorial adaptation respectively.	CO4	K1
j. What are different types of walking modification in mammals?	CO4	K3

PART – B**(10 x 5 = 50 Marks)**Answer *ANY FIVE* questions

	Marks	CO #	Blooms Level
2. a. Write the general characteristics of Chordata.	5	CO1	K1
b. Describe the similarities and dissimilarities between Urochordata and Cephalochordata.	5	CO1	K3
3.a. Write the general characteristics of Myxines and Petromyzones.	6	CO1	K2
b. What are the affinities of Cyclostomata?	4	CO1	K2
4. a. What is parental care and mention its significance?	3	CO2	K1
b. Describe parental care in Amphibia with examples.	7	CO2	K1
5.a. What are the general characteristics of Mammalia? Classify Prototheria and Metatheria with examples.	4	CO3	K2
b. Give a general account of Prototheria and Metatheria.	6	CO3	K1

6. a.	Diagrammatically describe the anatomy of a typical tooth in mammal.	4	CO4	K3
b.	What are different types of teeth in mammals? Write a note on modification of teeth in mammals with examples.	6	CO4	K2
7.a.	What is adaptive radiation?	2	CO4	K1
b.	Describe the adaptive convergence in marsupial and placental mammals.	8	CO4	K2
8. a.	Classify Amphibia and describe general characteristics of Amphibians.	5	CO2	K3
b.	Discuss the origin and evolution of Amphibia.	5	CO2	K3