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## GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR (GIET UNIVERSITY)

M. Sc. (Third Semester) Regular Examinations, December-2024

## 22ASPE302-Biology of Chordata

(M.Sc.- Life Science (AS))

Tir	ne: 3 hrs	Maximum: 60 Marks			
(The figures in the right hand margin indicate marks.) PART-A		(2 x 10	0 = 20  M	larks)	
Q.1.	Answer ALL questions		CO#	Blooms Level	
a.	Classify Chordata up to class with one example of each class.	1	-	3	
b.	What are the different Era and their respective Periods in Phenorozoic Eon?	1	-	2	
c.	What is foam nest in fish?	2	2	1	
d.	What is mermaid purse in sea?	2	2	2	
e.	Classify Reptilia up to the order with an example from each.	3	3	3	
f.	Differentiate between Anapsid and Diapsid skull pattern in Reptilia.	3	}	3	
g.	Write the name of two completely aquatic mammals.	4	ļ	1	
h.	What are different types of teeth according to their attachment to the jaw bone?	4	ļ	1	
i.	Who are the ancestors of Amphibia and why do they need to exhibit amphibious l	ife? 2	2	2	
j.	What are different types of walking modification in mammals?	4	ļ	2	
PART – B		$(10 \times 5 = 50 \text{ Marks})$			
<u>An</u>	swer ANY FIVE questions	Marks	CO#	Blooms Level	
2.	a. How do geological time scale is prepared?	3	1	3	
1	b. Make the geological time scale and show different major events in the animal worlds.	7	1	2	
3.	a. Make an outline classification of Chordata.	5	1	2	
1	b. Describe the origin and ancestry of Chordata.	5	1	2	
4.	a. Classify Amphibia and describe general characteristics of Amphibians.	5	2	3	
1	b. Disscuss the origin and evolution of Amphibia?	5	2	2	
5.	a. Diagrammatically show the structural peculiarities of Gymnophiona with examples.	4	2	3	
1	b. Describe the general characteristics of Gymnophiona.	6	2	2	

6. a. Classify reptiles with different skull pattern.

b.	Describe evolution and adaptive radiation in reptiles.	7	3	2
7.a.	Write an essay on distribution and structure of Sphenodon.	5	3	2
b.	Discuss the affinities of Sphenodon with other groups of reptiles.	5	3	2
8. a.	Write the general characteristics of mammals.	4	4	1
b.	Give an essay on aquatic mammals.	6	4	2