RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. SECOND SEMESTER EXAMINATION, AUGUST 2021

FIRST YEAR [BATCH 2020-23]

Date : 10/08/2021 Time : 11 am - 1 pm

ZOOLOGY (HONOURS) Paper : III [CC3]

Full Marks : 50

Answer all the questions:

Group A

1.	a)	"In <i>Ascidia</i> , adopting sessile nature by adult is found advantageous leaving the life of a motile larva" – justify.	
	b)	Mention two key features to distinguish between protostomes and deuterostomes.	[3+2]
2.	a)	How can you determine the phylogenetic link between hemichordates and echinoderms? State the major differences between the 'annuli' of a worm lizard and an earthworm.	•
	b)	What are the identifying characters of the order Strigiformes?	[1+2+2]
<u>Group B</u>			
3.	a)	Mention two significant characters of elasmobranchs.	
	b)	"Ruminant stomach may be considered as a microbial starter culture"- Justify.	
	c)	What is 'nose-leaf'?	[2+2+1]
4.	a)	Differentiate between pro-nephric and meta-nephric kidney.	
	b)	Define 'belching' and 'echo-jamming'.	
	c)	Name the geological time period of earth's history known as 'the golden age of fish'.	[2+2+1]
<u>Group C</u>			
5.	a)	Define pterylae.	
	b)	What are filoplume and down feather?	
	c)	Write down the reptilian characteristics of momotremes.	[1+2+2]
6.	a)	What is carnassial teeth?	
	b)	Illustrate the structure of a incisor with labelled Diagram	[1+(2+2)]
7.	a)	Differentiate between horns and antlers.	
	b)	What is ASVS?	
	c)	Describe the role of different muscles associated with biting mechanism of a solenoglyph snake.	ous [2+1+2]
8.	a)	Compare between Urodela and Aneura.	
	b)	What is paedomorphosis?	
	c)	Mention the factors which control neoteny.	[2+1+2]

Group D

- 9. a) Describe briefly the characteristic features of an Ammocoete larva.
 - b) What is physoclistous swim bladder?
 - c) What are Ampullae of Lorenzini?
- 10. a) Comment on the aortic arches found in mammals.
 - b) What is ductus arteriosus?
 - c) What is the pacemaker of the heart?
 - d) Define cardiac looping.

[2+1+1+1]

[3+1+1]

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