5/H-63 (v) (Syllabus-2015)

2022

(November)

ZOOLOGY

(Honours)

(Functional Anatomy, Zoogeography and Adaptations)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and any four from the rest

- 1. Write, in brief, on any three of the following:

 4×3=12
 - (a) Corals and coral reefs
 - (b) Chewing and sucking mouthparts of insects
 - (c) Fins in fishes
 - (d) Differences between poisonous/ venomous and non-poisonous/nonvenomous snakes
 - (e) Protective mimicry

2.	What is tors	ion? Descr	ibe the	proces	s of	
	torsion in C	astropods	with t	he help	of	
	suitable diagrams.			1+7+3=11		

- 3. Give an account of the different types of canal system found in sponges with suitable diagrams.

 8+3=11
- **4.** (a) Give a comparative account of Petromyzon and Myxine.
 - (b) Discuss the affinities of Amphioxus.
- 5. Write in detail on the following: 5½+5½=11
 - (a) Parental care in amphibians
 - (b) Flight adaptations in birds
- 6. What is zoogeography? Name the different zoogeographical realms of the world. Give an account of the faunal distribution in these realms.

 1+3+7=11
- 7. Give an account of the different modes of nutrition found in Protozoa.
- 8. Write short notes on any two of the following: 5½×2=11
 - (a) Dentition in mammals
 - (b) Aquatic adaptations in vertebrates
 - (c) Accessory respiratory organs in fishes
