2021

Zoology

[First Semester]

Paper - Z-101 (Gr. A)

Non-Chordates

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer the following: (Any 2)

- a) What are the threats regarding insect conservation?
- b) Mention four distinctive features for moraminofera.
- Mention role of hypothetical Dipliurula larva in the piylogeny of Echinoderms.
- State four important anatomical pecuilarities of Bryozoans.

(Turn Over)

 $2 \times 2 = 4$

2. Anwer the following: (Any 2)

 $4\times2=8$

- a) Write briefly with proper diagram the feeding mechanism of nematodes.
- b) Write a note on the evolution of coelome in invertebrates.
- c) What is cyclomporphosis? Explain the mechanism you have studied in respect to Rotifera.
- d) Write conservation strategies of inverfebrates.

3. Answer the following (Any 1)

8×1=8

- a) Briefly describe the salient features of metazoa. Describe and compare Hadzi's and Steinbock's scheme regarding origin of metazoa.
- b) How are lophophorates? Mention their feeding, reproduction and importance in biology?

2021

Zoology

[First Semester]

Paper - 101(B)

Chordates

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

4. Answer the followings : (Any 2)

- $2\times2=4$
- a) Mention the types of swim bladder with examples.
- b) Write the function of mullerain and wolffian duct.
- c) Write name of two marine finfish.
- d) Write importance of kidney in osmoregulation.

(Turn Over)

5.	An	swer the folloings. (Any 2) 4	×2=8
	a)	What is endostyle? Write short note on Iodine of protochordates.	cycle 2+2
	b)	Write scope of marine fishery in India.	
	c)	Classify knendy according to their developmenta stage in evolution.	1
	d)	Write down the morphological adaptation for echolocation in terrestrial mammals.	or 4
6.	An	Answer the following. (Any 1)	
	a)	Write a note on evalution of primates with special reference to Homo sapiens sapiens.	ıl 8
	b)	Write short note on	
		(i) Osmoregulation in fresh water fish.	
		(ii) Write fate of endestyle in protocherdates.	4+4