

U.G. 3rd Semester Examination - 2021**ZOOLOGY****Course Code : BZOCCHC301****Course Title : Diversity of Chordata**

Full Marks : 30

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.*1. Answer any **ten** questions from the following:

1×10=10

- a) In which Zoogeographical region is India included?
- b) Do Darwin finches show convergent evolution?
- c) What is the most diverse group of living chordates?
- d) Which organ filters food in Urochordates?
- e) Why is a shark a Chondrichthyes?
- f) What is the order of kangaroo?
- g) What are the push factors of migration?
- h) What is Tunicata?

- i) Why cephalochordates are so named?
- j) What is retrogressive metamorphosis with example?
- k) What do you mean by filoplumes?
- l) What is synsacrum?
- m) Distinguish between Ratitae and Carinatae.
- n) What is Jacobson Organ?
- o) What is ductus pneumaticus?

2. Answer any **five** questions from the following:

2×5=10

- a) What sense do bats share with cetaceans?
- b) What are three skin derivatives?
- c) Mention any four main characteristics of amphibians.
- d) What do you mean by Prototheria?
- e) Mention two main characters of Order Squamata.
- f) Mention two locomotory adaptation of bats living in caves.
- g) Mention two differences between poisonous and non-poisonous snakes.

h) Distinguish between protostomes and deuterostomes.

3. Answer any **two** questions from the following:

$5 \times 2 = 10$

a) Write a short note on account of adaptive radiation based on locomotion with suitable examples. 5

b) What do you mean by Parental Care? Discuss this phenomenon in Anura. 1+4

c) State the different structural modifications related to echolocation in Cetaceans with proper illustration. $3\frac{1}{2} + 1\frac{1}{2}$
