### CBCS/B.Sc./Hons./3rd Sem./ZOOACOR05T/2020, held in 2021



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# WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

# ZOOACOR05T-ZOOLOGY (CC5)

### **CHORDATES**

Time Allotted: 2 Hours

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

- 1. Answer any *eight* questions from the following:
  - (a) What is adaptive radiation or divergent evolution?
  - (b) Distinguish between cursorial and fossorial adaptation.
  - (c) State two characteristic features of Petromyzon sp.
  - (d) Cite two examples (scientific name) of the animals belonging to order Apoda.
  - (e) What is contour feather?
  - (f) What is opisthoglyphous fang?
  - (g) What is "pit of Hatschek"?
  - (h) Distinguish between endostyle and urostyle.
  - (i) What is ctenoid scale and where can it be found?
  - (j) What type of accessory respiratory organ does Anabas sp. Possess?
  - (k) Which countries do belong to the Neotropical realm?
  - (1) State two features of synapsid skull.
- 2. Answer any *three* questions from the following:
  - (a) Distinguish between physostomous and physoclistous swim bladder with suitable diagram.
  - (b) How do bats echolocate?
  - (c) What are the different adaptive groups radiated from terrestrial mammals?
  - (d) Furnish an account on reptilian, avian and mammalian species found in Ethiopian realm, at least one.
  - (e) What are the progressive and retrogressive changes occur in the tadpole larva of *Ascidia* sp?

 $2 \times 8 = 16$ 

 $3 \times 3 = 9$ 

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- and Name the class and requestion in the following annual
  - (a) Adagharan sin ann Ann Marain an Ann Ann Ann sin an Ann Ann Ann Ann Ann an
- (b) Chasally chass Amphibha op to fightly with a with with the symmetry
- (d) State the important characteristic features of class Asis. Add a total perturbation of flight or flapping.
- (c) Discuss the role of Thyroid hormone in amphibian metamentphenese wave 15 15 and salient features of class Osteje https://
  - N.B. (Students have to complete submission of their Aussier Scripts through E-mails (Weat-app) in their own respective colleges on the same day column dependent within E-baca after with of exam. University - College antharmos will not be held responsible for second submicking (at in proper address). Students are strongly advised not to submic mattype copies if the same answer script.

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