

Ananda Chandra College, Jalpaiguri

B.Sc. (Programme) Zoology 2nd Semester Online Internal Assessments, 2021

Paper code: DSC Paper 2

Paper Title: COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES

Full Marks: 20

1. Fill in the blanks: (0.5 × 8 = 4)
- The heart is covered by a transparent protective covering, called _____.
 - In mammals, the sinus venosus is reduced to _____.
 - In bony fishes, gills are covered with _____.
 - The layer of epidermis consists of actively dividing cells is _____.
 - In vertebrates, teeth that are replaced continually an indefinite number of times are called _____.
 - The chamber at end of digestive tract that receives the intestine, urinary & genital ducts is called _____.
 - In primates, the sweat glands found only in places like armpits, scrotum, anus etc is _____.
 - Terrestrial salamanders of the family _____, rely solely on cutaneous respiration, as they lack lungs and gills.

2. Identify the picture given below and write a short note on it: (1+3= 4)



3. Draw a labelled diagram of the heart of a lizard. (4)

4. Describe the evolution of the aortic arches. Support your answer with well labeled diagrams. (8)

Instructions to the students:

1. *Students are suggested to write name, University registration number, subject and paper at the top of answer script.*
2. *Students are suggested to make one PDF file, merging all pages of a paper. The name of file should contain **Student's name –Semester –paper code-university registration number** (Example: Rana Das- II-DSC2-191905030559).*
3. *PDF file of answer-scripts is to be emailed at **zrzoologyexams@gmail.com***
4. *Last date of sending PDF file of answer-scripts is 16th June 2021, 5 pm.*