

Zoology [Honours]

[CBCS]

B.Sc. Third Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER-C5T

Full Marks: 40

Time: 02 Hrs

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

Group A

1. **Answer any FIVE questions of the following:** **5x2= 10**
 - a. What are neoteny and Paedogenesis?
 - b. What do you mean by Phenology and Pterylosis?
 - c. What is preengland ? State its function.
 - d. State the location and functions of retmirabile?
 - e. Mention the difference between adaptive radiation and adaptive convergence.
 - f. What are Wallacline and weber line ?
 - g. Define potadromous migration with an example.
 - h. Mention four difference between ratitae and carinatae.

Group B

2. Answer any FOUR questions of the following: $4 \times 5 = 20$
- What is a wheel organ? Briefly describe the feeding mechanism of Branchiostoma. $1+4$
 - Write down the affinity of monotremes with Reptilia and Aves. 5
 - What do you mean by ichthyology? Write down the morphological and anatomical differences between elasmobranchii and Teleostomi. $1+2+2$
 - What is an accessory respiratory organ? State the name and discuss structural organization of the accessory respiratory organ in Clarias magur. $1+1+3$
 - What is the Holarctic realm? Mention the name of birds and mammals found in the holarctic realm. $1+4$
 - Write a note on
 - Continental drift theory
 - Dipleurula theory

Group C

3. Answer any ONE question of the following: $1 \times 10 = 10$
- Write down the morphological and anatomical adaptive features for the flight of birds. Briefly describe the flight mechanism of birds. $4+6$
 - Give an account of parental care in Amphibia.
 - Compare and contrast Lampreys and Hagfish. $6+4$
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