



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

2nd Semester Examination 2022

B.F.Sc.

PAPER—BFSC-206

ANATOMY AND BIOLOGY OF FINFISH

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

1. Answer any ten questions.

10×2

(a) What is agastric fish? Write an example.

(b) Define strainer fishes with example.

(c) Why fish heart is called as 'Venous Heart'?

(d) State on the Sexual dimorphism of Indian major carps.

- (e) What is pneumatic sea? Where it is found?
- (f) Define clasper. State its functions.
- (g) State the advantages of live fish feed.
- (h) Briefly explain evolutionary significance of accessory respiratory organ.
- (i) What is epiboly and emboly?
- (j) State the advantages of Tagging.
- (k) What are the differences between fry and fingerling of IMC?
- (l) Define spawning.
- (m) State the functions of Urophysis.
- (n) What is inter-renal bodies?
- (o) Define diadromous fish migration. Give an example.

2. Answer any six questions.

6×5

- (a) Briefly explain structural modification of mouth based on feeding habit.
- (b) Discuss anatomical structure of digestive system of any fin fish.
- (c) Describe lymphatic system of any fin fish with diagram.
- (d) Compare among afferent and efferent arterial system of fishes.
- (e) Briefly narrate functions of pituitary gland.

- (f) Discuss male reproductive system of *Channa* sp.
 - (g) Describe significance of Gonado-Somatic Index and Ponderal Index.
 - (h) Illustrate age determination process of fishes.
 - (i) Describe catadromous fish migration with example.
 - (j) Briefly explain gonadal development of any fish with diagram.
-