2023

BFSC 3rd Semester Examination

Physiology of Finfish and Shellfish

PAPER — BFSC-307

Full Marks: 50

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.

Illustrate the answers wherever necessary.

- 1. Answer any ten questions from the following: $2 \times 10 = 20$
 - (a) What do you mean by spiracle?
 - (b) What is the main function of the digestive system of fish?
 - (c) Classify fishes based on the feeding

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(Turn Over)

What do you mean by gastric and agastric fishes? Give examples of each.

(e) What is the function of blood plasma?

Mention the difference between Type-I and Type-II kidneys in fishes.

(g) What is green gland?

(h) What do you mean by Oogenesis?

What is myofibril?

osmoregulator and osmoconformer. Write the differences between

E What do you mean by hermaphroditism in fish? Give example.

0 What do you mean by chemoreception in

Table Define olfactory organ and its function in

(n) What do you mean by metabolism? anaerobic

0 What is endocrine gland? Give example.

Mention the function of Adrenocorticotropic Hormone (ACTH).

(g) Write the role of Prolactin (PRL) in fishes.



Answer any six questions from the following : 5×6=30

(a)

Illustrate the structure of teleostean kidney

Write down briefly the cell types, secretion with suitable diagram.

Draw a schematic diagram on the overview of ammonia and urea production through and functions of adenohypophysis in fish. 5 protein catabolism in fishes.

Write down osmoregulation in marine teleost. the mechanism 57 S

(e) Illustrate briefly the ovarian cycle in fish.

S shrimp. Write down the breeding biology of tiger 3+2=5

(g)Briefly describe the testicular cycle in bony fishes. 2+3=5

Why do the scales over the lateral line of a fish perforated? functions of lateral line on fish? What are the main

shellfishes with examples. What do you Mention the types of gills present in mean by Pulmonary Sac?

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(4)

(j) Briefly describe the lipid metabolism in fishes.

Write a note on the accessory respiratory organ of Anabas testudineus with suitable diagram. ... merasib oldanus niiw

and functions * *! * obypophysis in 6.4. 5

B.F.Sc./3rd Sem/BFSC-307/23 BL24/3(097)—90