

## U.G. 5th Semester Examination - 2021

### ZOOLOGY

Course Code : BZOODSHC2 [DSE 2]

Course Title : Fish and Fisheries

Full Marks : 30

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.*

1. Answer any **ten** from the following:  $1 \times 10 = 10$ 
  - a) What is the main function of pectoral fin?
  - b) What is clasper?
  - c) What are the advantages of composite fishing (any two)?
  - d) What is the importance of fisheries law and regulations?
  - e) Give an example of fish which shows bioluminescence.
  - f) Give an example of fish with rhomboid scale.
  - g) What are the causes of sex reversal in fishes?

- h) What is the meaning of fish processing?
  - i) Give an example of Bacterial fish diseases.
  - j) What is the cage culture?
  - k) What are the essential nutrients needed to formulate fish diet?
  - l) What is extensive method of fish farming?
  - m) What is the main function of gill?
  - n) Expand TMAO.
  - o) What are Indian Major Carps (IMC)?
2. Answer any **five** from the following:  $2 \times 5 = 10$ 
  - a) Write down two important functions of swim bladder.
  - b) Define homocercal tail.
  - c) Briefly write the effect of thermocline on marine fisheries of India.
  - d) Give an example of bottom feeder and surface feeder freshwater fish.
  - e) What are an accessory respiratory organ and its significance in fishes?
  - f) Write three key identifying characters of fishes.
  - g) What are the functions of electric organ?
  - h) Define brood stock management.

3. Answer any **two** questions from the following:

5×2=10

- a) Explain the importance of water quality management in aquaculture.
- b) Describe the different types of scales found in fishes. How does scales determine the age of the fish?
- c) Write the basic difference between homocercal and heterocercal fins. What is protocercal fin? In which fish you can see 'illicium and esca'? What is cephalic fin? 2+1+1+1

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