

B.Sc. Semester-VI Examination, 2022-23**ZOOLOGY [Honours]****Course ID : 62616 Course Code : SH/ZOO/603/DSE-3****Course Title : Fish & Fisheries**

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***UNIT-I**1. Answer any **five** of the following questions:

1×5=5

- Name the parasite which is known as carp lice.
- What do you mean by catadromous fish migration?
- Give one example each of Lean fish and Fatty fish.
- What is brood stock management?
- What do you mean by morphometric analysis?
- Give example of a fish which shows bioluminescence.
- Give an example of bacterial fish disease.
- Why fishes are said to have a streamlined body?

*[Turn Over]***UNIT-II**2. Answer any **two** of the following questions: 5×2=10

- Discuss various types of indigenous fishing crafts used by fishermen of eastern India. 5
- What do you mean by transgenic fish? Give example. Why zebra fish is found to be most suitable for transgenics? 1+1+3
- What is retina mirabilia? What are physostomous and physoclistous swim bladder? Explain the role of swim bladder in maintaining buoyancy in fishes. 1+2+2
- Write in brief the by-products of fish processing and their utilization. $2\frac{1}{2}+2\frac{1}{2}=5$

UNIT-III3. Answer any **one** of the following questions: 10×1=10

- What are primary and accessory respiratory organs? Describe the structure and function of gills of fishes. What is osmoregulation? 3+6+1
- What do you mean by fish polyculture? Give example. State the advantages of induced breeding in fish culture. Briefly discuss the importance of pH, temperature and dissolved oxygen in aquaculture. 1+1+2+6

B.Sc. Semester-VI Examination, 2022-23

ZOOLOGY [Honours]

Course ID : 62616 Course Code : SH/ZOO/603/DSE-3

Course Title : Parasitology

Time : 1 Hour 15 Minutes

Full Marks : 25

The figures in the right-hand margin indicate marks.

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

UNIT-I

1. Answer any **five** of the following questions:

1×5=5

- Distinguish between hard tick and soft tick.
- Enumerate the major symptoms (any two) of schistosomiasis.
- What is cysticercosis?
- Name one disease caused by fleas.
- Distinguish between ectoparasitism and endoparasitism with example.
- Distinguish between male and female *Ascaris lumbricoides*.
- What is nocturnal periodicity of filarial worm?
- What is molecular mimicry?

UNIT-II

2. Answer any **two** of the following questions: 5×2=10

- What is the infective stage of filarial worm? Write briefly on epidemiology and modes of transmission of *Wuchereria bancrofti*. 1+2+2
- Name the disease transmitted by *Cimex* sp. Name any two plant nematodes and diseases caused by them. 1+2+2
- What is vector? Give example of a mechanical vector. Mention any two pathogens carried by the mechanical vectors. 2+1+2
- Write the scientific name of vampire bat. What do you mean by “resident males” and “non-resident males” of vampire bats? Comment on its feeding habit. 1+2+2

UNIT-III

3. Answer any **one** of the following questions: 10×1=10

- Describe the characteristic features of bloodstream trypomastigote of *Trypanosoma gambiense* with suitable diagram. Name the disease caused by *T. gambiense*. Mention the diagnosis and treatment of the disease. (3+1)+1+3+2

- b) Why *Ascaris lumbricoides* is regarded as a monogenetic parasite? How this parasite infects a healthy individual? Discuss the life cycle of *Ascaris* and mention the epidemiology of Ascariasis. $1+2+5+2=10$
