

**PG CBCS**  
**M.Sc. Semester-I Examination, 2021**  
**FISHERIES SCIENCE**  
**PAPER: FSC 102**  
**(CORE COURSE)**

**Full Marks: 40**

**Time: 2 Hours**

**Write the answer for each unit in separate sheet**

**UNIT: 1**

**Freshwater Fisheries Resources**

**Answer any TWO questions from the following: **2X10 = 20****

1. Give an idea on ICZN. What do you mean by Taxon and Category? 3+7
2. What is Phylogeny? State the fish phylogenetic tree study and its importance. 2+8
3. Mention the important characters and example of following orders of fish: Siluriformen, Perciforms, mastacembliiformes, ophiocephaliformes and sygnathiformes. 3+3+4
4. State important rules of zoological nomenclature. 10
5. Briefly explain taxonomic barcoding for fish identification. 10

**UNIT: 2**

**Saline water Fisheries Resources**

**Answer any TWO questions from the following: **2X10 = 20****

1. Describe osmoregulation in fishes. What is the main theme behind buoyancy regulation in fishes? 6+4
2. State the purposes of fish migration. Compare catadromous and anadromous fish migration with example. 3+7
3. Discuss biological rhythms with example from fish. State its significance. 7+3
4. Give an account on the evolutionary genetics: Strategic to fish evolution. 10
5. Describe biology and evolution of Ghost Shark. 10

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