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## WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 1st Semester Examination, 2021-22

## IFFACOR01T-INDUSTRIAL FISH AND FISHERIES (CC1)

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

Answer any *seven* questions from the following:

 $2 \times 7 = 14$ 

	(a)	Distinguish between the mouth structure of <i>Petromyzon</i> and <i>Myxine</i> .	
	(b)	What is natural classification?	
	(c)	Write the scientific names of two scaleless fish.	
	(d)	What is lobefin fish?	
	(e)	How lateral line scales differs from other scales of a fish body?	
	(f)	What is spiracle in fish? Give example.	
	(g)	What is the peculiarity of pectoral fin in sting ray?	
	(h)	Mention the names and numbers of barbels of Mystus sp.	
	(i)	What is pleopod? Mention its function.	
2.		Write short notes on any <i>two</i> of the following:	$3\times2=6$
	(a)	Jawless fish	
	(b)	Binomial nomenclature	
	(c)	Decapoda	
	(d)	Taxonomic importance of gill racker.	
3.		Answer any <i>four</i> questions from the following:	$5 \times 4 = 20$
	(a)	What do you mean by morphometric study of a fish? Define with labelled diagram the following measurements of a carp:	1+4
		(i) Standard length, (ii) Predorsal length, (iii) Length of the snout, (iv) Body depth.	
	(b)	Write an account of different types of fin rays in fish. Discuss their importance in meristic study of fish with example.	2+3
	(c)	Describe with labelled diagram the external morphology of <i>Macrobrachium rosenbergii</i> with reference to taxonomic features.	5

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(d)	Mention at least four distinctive characters of Crustacea. Name the order with one order character of the following Crustaceans.	2+3
	(i) Daphnia, (ii) Cyclops, (iii) Krill	
(e)	Mention four general characteristics of the order Clupeiformes. Name the order with one order character of the following fishes :	2+3
	i) Cirrhinus, ii) Notopterus, iii) Sphyrna	
(f)	Give a comparative account of elasmobranch and teleostean fish. What is subspecies? Give example from fish.	3+2

**N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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