Answer any eight questions:

(f) What is red gland? State its function.

(h) What is gill raker? Write its function.

(b) What do you mean by "drag net" and "bag net"?

(d) Name two synthetic hormones used in induced breeding of carp.

(g) What do you mean by "column feeder" and "bottom feeder" fish?

(e) State the causative agent and symptoms of abdominal dropsy.

(a) What is Pen culture?

(c) What is EEZ?

1.



## WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2021

## **ZOOADSE04T-ZOOLOGY (DSE3/4)**

## FISH AND FISHERY

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.

(i)	What do you mean by "estuary"? Give scientific name of one icthyofauna of estuary of West Bengal.	
(j)	Define polyculture. Write the proper ratio of Indian major carps in polyculture.	
(k)	"Western coast of India has higher fish production." - Why?	
(1)	State the basic difference between intrinsic and extrinsic bioluminescence in fish.	
(m)	Write the name and use of any two fishing craft.	
(n)	What do you mean by ovoviviparity in shark?	
2.	Answer any <i>three</i> questions:	$3 \times 3 = 9$
(a)	What is Cage culture? Write its merits and demerits.	3
(b)	What do you mean by transgenic fish? Write the importance of transgenic fishes.	1+2
(c)	Briefly state about physoclistous and physostomous swim bladder.	$1\frac{1}{2} + 1\frac{1}{2}$
(d)	Classify fish depending on feeding habit and give example of each.	3

(e) Write in brief about Eco-hatchery along with its merits and demerits.

3

 $2 \times 8 = 16$ 

## CBCS/B.Sc./Hons./6th Sem./ZOOADSE04T/2021

3.		Answer any <i>three</i> questions:	$5 \times 3 = 15$
	(a)	Briefly state the structure of septal gill and explain how it works during respiration.	3+2
	(b)	Define induced breeding. Explain the process of hormone extract preparation during this technique. What is the dose and injection technique follows here?	1+2+2
	(c)	Explain the causes of depletion of fishery resources. State the basic importance of remote sensing in fishery.	3+2
	(d)	Explain in brief how remote sensing and GIS can be applied in fisheries?	5
	(e)	Discuss about bioluminescence in fishes	4

**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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