#### 2021

#### Zoology

### [Third Semester]

#### Paper - 303 Fishery Spl. Paper

Full Marks: 40

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.

Illustrate the answers wherever necessary.

#### Group -A

### (Ichthyotaxonomy and Biology)

- 1. Answer any two questions from the following.  $2\times2=4$ 
  - a) Write the scientific name of two catadromous fishes. 2
  - b) State the factors stimulate fish migration. 2
  - c) Name two commercially important shell fishes of India.

(Turn Over)

a)	breeding and write the mode of action of the sam	
Ans	swer any two of the followin questions.	4×2
a)	Write in brief the history of Indian fishery.	۷
b)	Describe different developmental stages of a fine	fish
c)	Name any four hormones and their antagonist functions.	with
Ans	swer any one question of the followings.	8×1
a)	Draw and lebel the location of endocrine glands fish and state the functions of each gland.	in a
b)	Suppose 25 fishes are taken for consideration, a having initial weight 12.50 gm (average) and the weight 17.00 gm (average). Feeds are given @69 body weight, protein present in the feed is 40%. It help of all these information calculate the PFCR and FCE. Make a relevant comment on yearsults.	fina % o: With PER
	Ans a) b) c) Ans a)	Answer any two of the followin questions.  a) Write in brief the history of Indian fishery.  b) Describe different developmental stages of a fine  c) Name any four hormones and their antagonist functions.  Answer any one question of the followings.  a) Draw and lebel the location of endocrine glands fish and state the functions of each gland.  b) Suppose 25 fishes are taken for consideration, having initial weight 12.50 gm (average) and the weight 17.00 gm (average). Feeds are given @69 body weight, protein present in the feed is 40%. It help of all these information calculate the PECR and FCE. Make a relevant comment on general comment of general com

# Group - B

# Oceanography

4.	An	Answer any two:			
	a)	Write about salinity of the ocean with distribution salinity in respect to depth in the ocean.	of 2		
	b)	Make a list of renewable and nonrenewable resource in ocean.	ces 2		
	c)	Write scientific name of two completly marine fish	es.		
	d)	What is plankton? Classify it on the basis of size.	2		
5.	An	swer any two questions of the following: 2	×4		
	a)	What is up-welling? Write its importance in fisher:	y. +2		
	b)	Write the importance of Coral in marine environme	nt. 4		
	c)	Discuss on fish faunal diversity in Bay of Bengal.	4		

d)	Write	down	the	importance	of plankton	in	ocean
	produc			4			

# 6. Answer any one question of the following: 1×8

- a) Write about the division of marine environment in respect to benthic animals with suitable diagram. 8
- b) Write down the cause of oil pollution and its remedy in marine environment. 6+2

M.Sc. RNLK-//Zoology/303/21