Total Pages: 8

# AB-234215

M.Sc. (Semester-II) Examination, June-2025

(Regular/Backlog)

# **ZOOLOGY**

(Fish Biology Aquaculture)

Time Allowed: Three Hours

Maximum Marks: 70

Note: This question paper is divided into four sections. Attempt questions from all four sections as per given directions. Distribution of marks is given in each section.

# SECTION-A

(Objective Type Questions)

Note: Attempt any ten questions. Each question carries 1 mark. [10x1=10]

(i) Physico Chemical characteristics for aquaculture includes following parameters:

AB-234215/320

(1)

[P.T.O.]

(a)

(b)

(c)

(d)

between:

(iv)

AB-234215/320

Trematoda

(2)

рΗ

Salinity

Temperature

	(d)	All of the above	
(ii)	Mario		
	(a)	Oysters	
	(b)	Mussels	
	(c)	Sea weeds	
	(d)	All of the above	
(iii)	Wheel-animalcules belong to :		
	(a)	Insecta	
	(b)	Rotifera	
	(c)	Porifera	

Indian major carps thrive well at temperatures

(a) 35-40°C (b) below 20°C (c) above 40°C (d) Gangotri hatchery is situated at : Gangotri (a) Uttarkashi (b) Uttar Pradesh (c) (d) Tamil Nadu Water flea is the common name for : (vi) Daphnia (a) Cyclops (b) Gammarus (c) (d) Palaemon (vii) A disorder in which cavities of the body is

accumulates fluids is called:

(3)

[P.T.O.]

20-37°C

(v)

AB-234215/320

	(α)	Costiasis	(a) Indian major carps
	(b)	Air-bladder disease	(b) Cat fishes
	(c)	Pop-eye	(c) Mullets
	(d)	Dropsy	(d) Murrels
(viii)	(viii) Which of the following is a bacterial disease?		(xi) Example of bottom feeder fish is
	(a)	Velvet disease	(xii) Fish is dipped for 1-2 min in 500 ppm copper
	(b)	Costiasis	sulphate for treatment of
	(c)	Fin rot	SECTION-B
	(d)	Chilodow disease	( Very Short Answer Type Questions )
(ix)	(ix) Gonadotropins are the products of :		Note: Attempt any five questions. Each question carries 02 marks. (Word limit 25-30 words). [5x2=10]
	(a)	Hypothalamus	2. (i) What is Dissolved Oxygen?
	(b)	Gonads	(ii) What is Brakish Water Culture?
	(c)	Pituitary	(iii) What is Nursery Ponds?
	(d)	Synthetic Analogues	(iv) What is Pen Culture?
(x)	The	suitability of ovaprim has been proved for :	(v) What are Transgenic Fishes?
AB-2342	15/320	(4)	AB-234215/320 (5) [P.T.O.]

- (vi) What is COD?
- (vii) Write the name of five aquarium fishes.

#### SECTION-C

# ( Short Answer Type Questions )

Note: Attempt any five questions. Each question carries 04 marks. (Word limit: 250 words) [5x4=20]

- 3. (i) Cryopreservation of gametes
  - (ii) Nutrition of aquatic animals
  - (iii) Aquaculture engineering
  - (iv) Role of probiotics in fish nutrition
  - (v) Impact of GMOs on aquatic biodiversity
  - (vi) Role of Cage Culture in fish production
  - (vii) Integrated fish farming

# SECTION-D

# ( Essay Type Questions )

Note: Attempt any three questions. Each question carries 10 marks. (More than: 500 words) [3x10=30]

 (i) Describe role of fish food organisms in fish culture.

AB-234215/320 (6)

- (ii) What is the basis of induced breeding? Give historical background of hypophysation technique.
- (iii) What are the Water Quality parameters?

  Describe their importance in aquaculture.
- (iv) Describe the transport methods of eggs, fry finger lings and adults.
- (v) Describe the infection and diseases in fishes.

----X----

AB-234215/320

(7)