

(Fisheries Biology, Animal Husbandary, Wild Life Biotechnology, Toxicology)

Faculty Code: 003 Subject Code: 1015018 Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 **Instructions:** Illustrate your answers with neat and labeled diagram. Figures to the right side indicate full marks for the questions (2) 1 Answer the following questions 4 (1) What is Inland fisheries? (2) Name the fungi causing Gill Rot disease in fish. (3) Major source of fish gelatin is ______. (4) Main causes offish spoilage is 2 (b) Answer in Brief (any 1 out of 2) Advantages of formulated food. Give causes of fish spoilage by bacteria. 3

- Answer in detail (any 1 out of 2) (c)
 - Give brief note on Dropsy. (1)
 - Carbohydrate as fish nutrition.
- Write a note on (any 1 out of 2)
 - **(1)** Explain Induced breeding in detail.
 - (2) Post harvesting techniques in fisheries.
- 2 Answer the following questions: 4
 - Give scientific name of silk worm. (1)
 - (2)Who invented movable artificial hives
 - Give the name of bee enemies. (3)
 - How much metres of silk thread can produce (4) by single caterpillar?

5

	(b)	Answer in Brief (any 1 out of 2)	2
		(1) Give economic importance of Honey Bee.	
		(2) Short note on types of Silkworm.	
	(c)	Answer in detail (any 1 out of 2)	3
		(1) Short note on rearing of silkworm.	
		(2) Write life history of Bombyx mori.	
	(d)	Write a note on (any 1 out of 2)	5
		(1) Explain in detail Apiculture.	
		(2) Give a note on sericulture.	
3	(a)	Answer the following questions	4
		(1) Give a full form of CITES.	
		(2) What is Wildlife Protection Act?	
		(3) Define Keystone species.	
		(4) What is In-situ conservation?	
	(b)	Answer in Brief (any 1 out of 2)	2
		(1) Write location and fauna of Gim Corbatt National	
		Park.	
		(2) Write note on World Wildlife Fund.	
	(c)	Answer in detail (any 1 out of 2)	3
		(1) Write note on Dachigam Sanctuary.	
		(2) Describe IBWL.	
	(d)	Write a note on (any 1 out of 2)	5
		(1) Describe endangered and endemic species in India	
		(2) Write note on Hot spots of Biodiversity.	
4	(a)	Answer the following questions	4
		(1) What is cloning?	
		(2) What is biotechnology?	
		(3) Define restriction enzyme.	
		(4) Explain exonuclease enzymes.	

2

RO-003-1015018]

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	(b)	Answer in Brief (any 1 out of 2)	2
		(1) Write applications of Restriction enzymes.	
		(2) Explain Natural Cloning.	
	(c)	Answer in detail (any 1 out of 2)	3
		(1) Explain BAC vector.	
		(2) Write note on Cell cloning.	
	(d)	Write a note on (any 1 out of 2)	5
		(1) Write note on plasmid vector.	
		(2) Brief account on Bacteriophage vectors.	
5	(a)	Answer the following questions	4
		(1) Define Metal.	
		(2) What is toxicology?	
		(3) Which metal can cause dental flurosis.	
		(4) Which metal is known as the Poison of Kings?	
	(b)	Answer in Brief (any 1 out of 2)	2
		(1) Explain any four characteristics of Exposer in	
		toxicology.	
		(2) Toxicity of Floride.	•
	(c)	Answer in detail (any 1 out of 2)	3
		(1) Write note on absorption of toxicants by the	
		lungs.	
		(2) Give a detail account on absorption of toxicants	
	(3)	through the skin.	_
	(d)	Write a note on (any 1 out of 2)	5
		(1) Give the detail account on toxicity and	
		treatment of arsenic.	
		(2) Classification of toxicants.	