

Seat	No.		

HAK-003-1015018

B. Sc. (Sem.-V) (W.E.F. 2016)

Examination

May - 2023

Zoology: Z-502

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

Faculty Code: 003

Subject Code: 1015018

Time: $2\frac{1}{2}$ Hours / Total Marks: 70

Instructions:

- (1) Illustrate your answers with neat and labelled diagrams.
- (2) Figures to the right side indicate full marks of question.
- 1 (a) Give answers of following questions: 4
 - (1) Define inland fisheries.
 - (2) Nursery pond is used for .
 - (3) Which organism is responsible for development of slimness of skin in fish?
 - (4) Write a use of fish gelatin.
 - (b) Write any one out of two:
 - (1) Write note on fish liver oil.
 - (2) Make a note on advantages of formulated food.
 - (c) Write any one out of two:
 - (1) Explain fish feed.
 - (2) Describe lipid as a nutrition source in fish.
 - (d) Write any one out of two:
 - (1) Explain induce breeding in detail.
 - (2) Discuss different types of fish pond.

2

3

5

2	(a)	Give answers of following questions:	4
		(1) A full grown 5 th in star caterpillar of silk worm has	
		segmented body.	
		(2) Honey bee belongs to which class?	
		(3) Make a list of most important produce of apiculture.	
		(4) Spinning tray is used for	
	(b)	Write any one out of two:	2
		(1) Write a note on economic importance of honey bee.	
		(2) Describe indigenous method of apiculture.	
	(c)	Write any one out of two:	3
		(1) Describe various products of apiculture.	
		(2) Describe different species of honey bee in India.	
	(d)	Write any one out of two:	5
		(1) Discuss in detail life cycle of honey bee.	
		(2) Write a note on sericulture.	
3	(a)	Give answers of following questions:	4
		(1) Write a full name of IBWL.	
		(2) Define key stone species.	
		(3) Keoladeo national park is also known as	
		(4) Where the headquarter of WWF is located in city	
		of India?	
	(b)	Write any one out of two:	2
		(1) Write only names of Hotspots biodiversity.	
		(2) Write a short note on CITES.	
	(c)	Write any one out of two:	3
		(1) Write a note on mammalian endangered species.	
		(2) Make a note on in situ hybridization.	
	(d)	Write any one out of two:	5
		(1) Discuss key stone species.	
		(2) Describe Jim Corbatt national park.	
4	(a)	Give answers of following questions:	4
		(1) BAC can accept DNA inserts of around kb.	
		(2) Write the function of DNA ligase in recombinant technology.	
		(3) Write the full name of CBB.	
		(4) What is recognition sequence?	
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(b)		Write any one out of two:	
		(1) Restriction endonucleases.	
		(2) Discuss method for gene transfer.	
(c)		Write any one out of two:	3
		(1) Describe bacteriophage.	
		(2) Write a basic principle of rDNA technology.	
(d)		Write any one out of two:	5
		(1) Give a detailed account on gene cloning.	
		(2) Write a step for rDNA technology.	
5 (a)	(a)	Give answers of following questions:	4
		(1) What is toxicant?	
		(2) Which metal is known as a carcinogenic method?	
		(3) Fluoride was isolated by in the year	
		(4) Which metal is used as a poison of king.	
	(b)	Write any one out of two:	2
		(1) Brief note on dental fluorosis.	
		(2) Make a note on acute poisoning of arsenic.	
	(c)	Write any one out of two:	3
		(1) Explain classification of toxicant.	
		(2) Give account of a treatment of arasenic toxicity.	
	(d)	Write any one out of two:	5
		(1) Describe lead as a toxic substance.	
		(2) Describe absorption from targetted site.	