2022/TDC/ODD/SEM/ ZOOSEC-501T/037

TDC (CBCS) Odd Semester Exam., 2022

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ZOOLOGY

(5th Semester)

Course No. : ZOOSEC-501T

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(Aquarium Fish-Keeping)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

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- 1. Answer any three questions from the following:

 1×3=3
 - (a) Name two exotic freshwater ornamental fish species.
 - (b) Mention two benefits of ornamental fish-keeping.
 - (c) Mention the names of two indigenous ornamental fish species.
 - (d) Mention two general characteristics for selecting a healthy ornamental fish species.

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2.	Answer any	one question from the	following:	2
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- Write a brief note on egg layers.
- Write a brief note on live bearers.
- -5-1-2-2 . TI 3. Answer any one question from the following :
 - Define aquarium. Discuss the types of aquaria.
 - the pne-requisites Discuss for ornamental fish culture.

UNIT-II

- Answer any three questions from following:
 - In which order does goldfish belong?
 - Write about the sexual dimorphism of goldfish.
 - In which order does angelfish belong?
 - Write about the sexual dimorphism of angelfish.
- 5. Answer any one question from the following:
 - Write about the systematic position and sexual dimorphism of guppy.

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(b) Write about the systematic position and sexual dimorphism of molly. where the population be oncidered in

Answer any one question from the following:

Discuss the morphology, behaviour and sexual dimorphism of swordtail fishes.

2+1+2=5

Discuss the morphology, behaviour and sexual dimorphism of butterfly fishes. did betsion to

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UNIT-III

- Answer any three questions from the following:
 - What are the natural foods used in ornamental fish-keeping?
 - What are the supplementary feeds used in ornamental fish-keeping?
 - What are the complete feeds?
 - What are the dry foods used in ornamental fish-keeping?

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8.	Answer any one question from the following:	2
illy S. Osy	(a) What are the points to be considered in selecting live feeds?	.ā
lie-	(b) Give six examples of live ornamental fish foods.	
10	1-6	
9.	Answer any one question from the following:	5

- (a) Discuss the preparation and composition of formulated fish feeds:
 - (b) Discuss the common sources of ornamental fish feeds.

UNIT-IV

- **10.** Answer any three questions from the following: 1×3=3
 - (a) How is the conditioning of fish done before transportation?
 - (b) What is pre-packing?
 - (c) What is final packing?
 - (d) What do you mean by forwarding?

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(5)

11.	Answer any one question from the following:					
		Mention	the		principles	

- (b) Write briefly about the fish handling during transportation.
- 12. Answer any one question from the following:
 - (a) Discuss the different types of containers used in the transportation of ornamental fishes.
 - (b) Discuss the different factors that affect the efficiencies of ornamental fish transportation.

UNIT-V

- 13. Answer any three questions from the following: 1×3=3
 - (a) Is tap water safe for aquarium fishes?
 - (b) What is the ideal pH for most of the aquarium fishes?
 - (c) What should be the ideal nitrate level for most of the aquarium fishes?
 - (d) Does aquarium need daily change of water?

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14.	Answer any or	e question	from	the following:	2
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- (a) What are the steps to be followed to maintain an aquarium properly?
- (b) What are the essential parameters required to be checked in a routine manner to maintain water quality of an aquarium?

15. Answer any one question from the following: 5

- (a) Discuss the budget for setting up an aquarium fish farm as cottage industry.
- (b) Discuss the other different aspects of aquarium maintenance apart from maintenance of water quality.

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(a) In top water safe for aquarique listins?

(b) What is discusseful application amount of the aquarium fishes?

(c) Wingt shount hosting jelesk milisped leggielik must of the aquadqua-fishes?

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