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Name.....

Reg. No.....

**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2026**

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2019 Syllabus)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type)*All questions can be answered.**Each question carries 2 marks.**(Ceiling 20 marks)*

1. Write two differences between cestodes and nematodes.
2. Explain the term hyper infection with an example.
3. How is a facultative parasite different from an obligate parasite ?
4. What is auto infection ?
5. Define biological control with one example.
6. Mention two economic benefits of lac culture.
7. Define predatory insects with one example.
8. Define pest in the context of agriculture.
9. List two major causes of pest outbreaks.
10. What is graft tissue in pearl culture ?
11. What is Pisciculture ?
12. Define the term 'harvesting' in fish farming.

Turn over

Section B (Paragraph/Problem Type)

All questions can be answered.

Each question carries 5 marks.

(Ceiling 30 marks)

13. Discuss the epidemiological importance of *Xenopsylla*.
14. Compare the disease transmission roles of *Culex* and *Aedes* mosquitoes.
15. Give a brief account on zoonotic diseases.
16. Write an account on the damage caused to host plants by *Aceria* sp.
17. Give an account on the economic importance of sericulture.
18. Give an account on the types of prawn farms.
19. Write a short note on induced spawning.

Section C (Essay Type)

*Answer any **one** of the following questions.*

The question carries 10 marks.

20. Discuss the scope and importance of aquaculture in Kerala.
21. Write an essay on insect pests affecting stored grains and fruits.

(1 × 10 = 10 marks)

D 124496**(Pages : 2)****Name.....****Reg. No.....****SECOND SEMESTER (CBCSS-UG) DEGREE SUPPLEMENTARY
EXAMINATION, APRIL 2025****Zoology****ZOL 2C 02T—ECONOMIC ZOOLOGY****(2019 Syllabus)****Time : Two Hours****Maximum : 60 Marks****Section A**

*All questions can be answered.
Each question carries 2 marks.
(Ceiling 20)*

1. What is retro infection ?
2. Define auto infection with an example.
3. How does Cimex affects human health ?
4. What is the significance of Pthirus in public health ?
5. What kind of damage is caused by Spodoptera sp. to rice species ?
6. What are insect parasitoids?
7. Comment on integrated pest management.
8. What type off damage does Batocera sp. cause to mango trees ?
9. What is lac culture ?
10. What is induced spawning in fish farming ?
11. Name any two commonly cultured prawn species.
12. What is 'spat' in mussel farming ?

(Ceiling 20 marks)**Section B**

*Paragraph / Problem type.
All questions can be answered.
Each question carries 5 marks.
(Ceiling 30 marks)*

13. Explain the modes of infection.
14. Compare and contrast definitive and intermediate hosts.

Turn over

15. Write an account on the various modes of parasitic infection in humans.
16. Comment on the causes of pest outbreaks.
17. Briefly explain the damages caused to host plants by Black headed caterpillar.
18. Discuss the role of water quality in pisciculture.
19. What is the role of graft tissue in pearl formation ?

(Ceiling 30 marks)

Section C (Essay type)

*Answer any **one** of the following questions.
The question carries 10 marks.*

20. Write an essay on useful insects.
21. Explain the process and significance of prawn culture in aquaculture.

(1 × 10 = 10 marks)

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**SECOND SEMESTER (CBCSS-UG) DEGREE EXAMINATION
APRIL 2024**

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short Answer Questions. Each question carries 2 marks :

- 1 What is autoinfection ? Give an example.
- 2 Name any two species of bees used in Apiculture.
- 3 Write notes on microfilaria.
- 4 How can we control *Rhynchophorus ferrugineus* ?
- 5 What is a pest ? Give two examples.
- 6 Comment on IPM.
- 7 Write notes on measly pork.
- 8 What are parasitoids ? Give an example.
- 9 What is vagabond disease ?
- 10 Mention the scientific names of any two culture prawns.
- 11 Write notes on any two mussel culture techniques.
- 12 What are nursery ponds ?

(Ceiling : 20 marks)

Section B

II. Paragraph Questions. Each question carries 5 marks :

- 13 Write notes on *Wuchereria bancrofti*.
- 14 Write notes on different types of culture systems of prawn.
- 15 Briefly explain the damages and infection caused by *Schistosoma haematobium*.
- 16 Describe the causes of pest outbreak.

Turn over

- 17 Explain induced breeding in prawn culture.
- 18 What are the parasitic adaptations of *Taenia solium* ?
- 19 Describe the steps involved in nucleus insertion in Pearl culture.

(Ceiling : 30 marks)

Section C

III. Essay Questions. Answer any *one* question :

- 20 Write an essay on any five insect pests and their control measures.
- 21 Describe pearl culture.

(1 × 10 = 10 marks)

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**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2023**

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short Answer Questions. Each question carries 2 marks :

- 1 Distinguish obligatory and facultative parasites.
- 2 What are zoonotic diseases ?
- 3 What is bladder worm ?
- 4 Write notes on enterobiasis.
- 5 Give four reasons for pest outbreak
- 6 Briefly describe *Leptocorisa*, the rice bug.
- 7 Write notes on Chandraki
- 8 What are Parasitoids ? Give an example.
- 9 Give scientific names of two useful insects.
- 10 What is prawn filtration ?
- 11 Write notes on hapa.
- 12 Give two examples to ornamental fishes.

(Ceiling : 20 marks)

Section B

II. Paragraph Questions. Each question carries 5 marks :

- 13 Explain the asexual life of *Plasmodium vivax*.
- 14 Write the merits and demerits of biological control.

Turn over

- 15 Distinguish inoculative and contaminative transmissions with examples.
- 16 What are the damages caused by *Spodoptera mauritii* ? Write on its control measures.
- 17 Describe *Ancylostoma duodenale*.
- 18 Write notes on different types of prawn farms.
- 19 What are the characteristics of a culturable fish ?

(Ceiling : 30 marks)

Section C

III. Essay Questions. Answer any *one* question.

- 20 Write an essay on Mussel culture.
- 21 Explain the various pest management strategies.

(1 × 10 = 10 marks)

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**SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2022**

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2019—2020 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short Answer Questions. Each question carries 2 marks :

- 1 What is inoculative transmission ?
- 2 Write any *four* characteristics of a culturable fish.
- 3 What is a facultative parasite ? Give an example.
- 4 Write notes on *Bactrocera*, the fruit fly.
- 5 Give two biological control agents of *Opisina*.
- 6 What is bee pasturage ?
- 7 Give two examples to parasitic protists.
- 8 What is brood lac ?
- 9 Name four insecticides.
- 10 Write on hexacanth embryo.
- 11 What is Isinglass ?
- 12 Write notes on prawn filtration.

(Ceiling : 20 marks)

Section B

II. Paragraph Questions. Each question carries 5 marks :

- 13 Describe the causes of pest outbreak.
- 14 Which are the products of Apiculture ? Write on their economic importance.

Turn over

- 15 Explain induced breeding in prawn culture.
- 16 Describe the life cycle of *Entamoeba histolytica*.
- 17 What are the different culture techniques employed in mussel farming ? Explain.
- 18 Distinguish monogenetic and digenetic parasites with two examples.
- 19 Explain the procedure of induced spawning in Pisciculture.

(Ceiling : 30 marks)

Section C

III. Essay Questions. Answer any *one* question :

- 20 Describe Sericulture.
- 21 Write an essay on biological control of insect pests citing examples.

(1 × 10 = 10 marks)

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SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2022

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2021 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Questions)*Answer at least **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. What are insect parasitoids ?
2. What are the common cultivable prawn species ?
3. What is the difference between definite and intermediate hosts ?
4. Write down the important methods of nucleus implantation.
5. What are occasional pests ?
6. What is bladder worm ?
7. Enumerate the industrial uses of lac.
8. Write down the damages caused by *Rhynchophorus*.
9. What is meant by autoinfection ?
10. Name any four fresh water ornamental cultivable live bearers.
11. Briefly explain the pathogenicity of dengue fever.
12. What is meant by pest resurgence ?

(8 × 3 = 24 marks)

Section B (Paragraph Questions)*Answer at least **five** questions.**Each question carries 5 marks.**All questions can be attended.**Overall Ceiling 25.*

13. Give an account on different types of fish pond fertilizers.
14. Briefly explain the clinical symptoms of lymphatic filariasis.

Turn over

15. Describe the various methods of biological control among insect pests.
16. Write a note on *Cimex*.
17. Write a short note on the significance of eye stalk ablation in prawn culture.
18. Explain the nature of destruction and control measures of rice weevil.
19. Briefly explain different types of parasites.

(5 × 5 = 25 marks)

Section C (Essay Questions)

*Answer any **one** question.*

The question carries 11 marks.

20. Describe in detail sericulture and extraction of silk.
21. Discuss the different steps involved in mussel culture.

(1 × 11 = 11 marks)