

## SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS—UG)

Zoology

ZOL 2C 02T—ECONOMIC ZOOLOGY

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

## Section A

I. Short answer questions. Each question carries 2 marks :

- 1 What are zoonotic diseases ?
- 2 What is a spat ?
- 3 Comment on the damages caused by *Helopeltis*.
- 4 What is meant by augmentation in pest control ?
- 5 Briefly explain the medical importance of *Xenopsylla*.
- 6 What is a hyperparasite ?
- 7 Comment on pokkali culture of prawn.
- 8 Give the scientific names of any two parasitic human nematodes.
- 9 What is a key pest ?
- 10 Write down the different species of Indian silk moths ?
- 11 What are the preventive measures of taeniasis ?
- 12 What is meant by insecticide resistance ?

(Ceiling : 20 marks)

## Section B

II. Paragraph questions. Each question carries 5 marks :

- 13 Write an account on Integrated Pest Management.
- 14 Briefly explain any five economically important byproducts from fish.
- 15 Give an account on the nature of destruction and control measures of *Spodoptera*.
- 16 Explain the clinical symptoms of Schistosomiasis.
- 17 Discuss different modes of parasitic infections.

Turn over

- 18 Comment on common cultivable ornamental fishes.
- 19 Describe the symptoms, treatment and prevention of malaria.

(Ceiling : 30 marks)

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

- 20 Discuss the methods and appliances used in modern bee keeping technique.
- 21 Write an essay on the different steps involved in pisciculture.

(1 × 10 = 10 marks)

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## SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS—UG)

Zoology

ZOL 2B 02T—ANIMAL DIVERSITY : NONCHORDATA Part—II

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

## Section A

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

- 1 What is metanephridia ?
- 2 What is clitellum ?
- 3 Mention the blood feeding adaptations of *Hirudinaria*.
- 4 What is tagmatization ?
- 5 Write briefly on *Limulus*.
- 6 What do you know about 'praying mantis' ?
- 7 Distinguish between class Chilopoda and class Diplopoda.
- 8 Mention the affinities of *Balanoglossus* with chordates.
- 9 What is madreporite ?
- 10 Write a brief note on *Bonellia*.
- 11 What are nudibranchs ?
- 12 What are sea urchins ?

(Ceiling : 20 marks)

## Section B

II. Paragraph questions. Each question carries 5 marks :

- 13 Explain the peculiarities of *Peripatus*.
- 14 Explain the structure and functions of parapodium in Annelida.

Turn over

- 15 With labeled diagrams explain the abdominal appendages of *Penaeus indicus*.
- 16 Write on the heteronereis stage of *Neanthes*.
- 17 Explain the sense organs of *Pila globosa*.
- 18 Write the salient features of the class Scaphopoda. Mention an example.
- 19 Write briefly on the coelomate minor phyla you have studied.

(Ceiling : 30 marks)

### Section C

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

- 20 Explain the structure of the respiratory system and the mechanism of respiration in *Penaeus indicus*.
- 21 Classify the phylum Annelida down to subclasses mentioning the salient features and one example each.

(1 × 10 = 10 marks)

## SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2021

## Zoology

## ZOL 2C 02T—ECONOMIC ZOOLOGY

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 is a reservoir host ?
2. What is meant by insecticide resistance ?
3. What is cysticercosis ?
4. Name any four predatory insects of honey bee.
5. Differentiate between infection and infestation.
6. What is moriculture ?
7. Mention the clinical symptoms of kala-azar.
8. What are the different types of prawn farms ?
9. Briefly explain the damages caused by *Aceria*.
10. What are endophagic vectors ?
11. What are the different culture methods adopted in mussel farming ?
12. Briefly explain the demerits of biological pest control.

(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. Write down the importance of honey and bee wax.
14. Briefly explain the transmission, clinical symptoms and prophylaxis of Chikungunia.

**Turn over**

15. What is induced breeding ? Write a note on its advantages.
16. Write a short note on amoebiasis.
17. Describe the various methods of chemical control among insect pests.
18. Give a brief account on pearl culture.
19. Discuss the medical importance and control of pubic louse.

(5 × 5 = 25 marks)

**Section C (Essay Question)**

*Answer any one question.*

*The question carries 11 marks.*

20. Define pest. Explain different types of insect pests and the causes of pest outbreak.
21. Write an essay on the different steps involved in lac production.

(1 × 11 = 11 marks)

SECOND SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
APRIL 2021

## Zoology

## ZOL 2B 02 T—ANIMAL DIVERSITY : NON-CHORDATA Part-II

Time : Two Hours

Maximum : 60 Marks

## Section A

*Answer at least eight questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. What is *Haemadipsa* ?
2. Write the structural organization of the nervous system in Annelida.
3. Distinguish between Notopodium and Neuropodium.
4. Write briefly on the exoskeleton of an arthropod.
5. What are 'hermit crabs' ?
6. Write briefly on 'southern bird wing'.
7. What are Trilobites ?
8. Mention the salient features of the phylum Phoronida.
9. What is ambulacral system ?
10. Mention the salient features of the class Polyplacophora.
11. Write a brief note on 'brittle star'.
12. What is Radula ?

(8 × 3 = 24 marks)

Turn over

**Section B (Paragraph Questions)**

Answer at least **five** questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. Explain the affinities of *Peripatus*.
14. Mentioning an example, explain the salient features of the subclass Oligochaeta.
15. Explain the structure of the excretory system in *Neanthes*.
16. With illustrations write the structure of the cephalic appendages in *Penaeus indicus*.
17. Citing an example, explain the salient features of the class Ophiuroidea.
18. Explain the affinities of *Balanoglossus*.
19. What are the salient features of the class Gastropoda ? Mention an example.

(5 × 5 = 25 marks)

**Section C (Essay Questions)**

Answer any **one** question.

The question carries 11 marks.

20. With a labeled diagram explain the nervous system of *Penaeus indicus*.
21. Explain reproduction and development in *Neanthes*.

(1 × 11 = 11 marks)



## SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION, APRIL 2021

## Zoology

## ZOL 2C 02—ECONOMIC ZOOLOGY

Time : Three Hours

Maximum : 64 Marks

## Part A

I. One Word Questions. Answer *all* questions :

- 1 An arthropod, usually an insect, whose larva lives as a parasite and eventually kills its host, is called \_\_\_\_\_.
- 2 The growing and feeding stage of *Entamoeba histolytica* is known as \_\_\_\_\_.
- 3 The female of *Schistoma haematobium* occurs in \_\_\_\_\_ canal on the ventral side of the male.
- 4 In pearl culture, the piece of tissue which is inserted into the pearl oyster is called \_\_\_\_\_.
- 5 The green mussel belongs to the genus \_\_\_\_\_.
- 6 Paddy cum prawn culture method practiced in Kerala is known as \_\_\_\_\_.
- 7 \_\_\_\_\_ is a live bearing ornamental fish.
- 8 Fertilemales in a honey bee colony are called \_\_\_\_\_.
- 9 Pests which rise to the pest status only accidentally or unexpectedly in a few isolated localities are called \_\_\_\_\_.
- 10 \_\_\_\_\_ is the vector of plague.

(10 × 1 = 10 marks)

## Part B

II. Short Answer Questions. Answer any *seven* questions :

- 11 Distinguish between definitive host and intermediate host.
- 12 What is elephantiasis ?
- 13 Distinguish between Infection and Infestation.
- 14 Comment on a pest of mango.
- 15 What is Integrated Pest Management ?
- 16 Distinguish between Regular pest and Persistent pest.
- 17 Mention the four types of silk worms cultivated.

Turn over

- 18 Write on the raft method of mussel farming.
- 19 What is isinglass ? Mention its uses.
- 20 What do you know about gold fish ?

(7 × 2 = 14 marks)

### Part C

III. Paragraph Questions. Answer any *four* questions :

- 21 Explain the nature of damage caused and the control measures of two pests of coconut.
- 22 Describe the social organization of honey bee colony.
- 23 Write an account on pearl culture.
- 24 What do you know about fish utilization ?
- 25 Explain the different modes of parasitic infection.
- 26 Write an account on human pin worm.

(4 × 5 = 20 marks)

### Part D

IV. Essay Questions. Answer any *two* questions :

- 27 Elaborate on the various aspects of prawn culture.
- 28 Present an account on the human parasite, *Taenia solium*.
- 29 Write an account on the insect vectors of human diseases and their control measures.
- 30 Explain the methodologies involved in pisciculture.

(2 × 10 = 20 marks)

**SECOND SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
APRIL 2021**

Zoology

ZOL 2B 02—ANIMAL DIVERSITY : NON-CHORDATA—II

Time : Three Hours

Maximum : 80 Marks

*Draw diagrams wherever necessary.*

**Part A**

I. One Word Questions. Answer *all* questions :

- 1 The type of nephridium with both the external and internal openings is called \_\_\_\_\_.
- 2 The characteristic free swimming larva of annelids is \_\_\_\_\_.
- 3 In female *Penaeus*, the sternum of the last thoracic segment has a cup like outgrowth called \_\_\_\_\_.
- 4 \_\_\_\_\_ is the oldest known arthropod.
- 5 Mention an ovo-viviparous arthropod.
- 6 The Indian chank shell belongs to the molluscan genus \_\_\_\_\_.
- 7 *Perna* attaches to substratum with \_\_\_\_\_ threads.
- 8 Brittle star belongs to the class \_\_\_\_\_.
- 9 Tongue worm belongs to the genus \_\_\_\_\_.
- 10 Mention the phylum to which *Bonellia* belongs.

(10 × 1 = 10 marks)

**Part B**

II. Short Answer Questions. Answer any *ten* questions :

- 11 What is Heteronereis ?
- 12 Comment on the habit and the habitat of *Arenicola*.
- 13 What are dendrobranchs ?
- 14 Write a brief note on *Limulus*.

**Turn over**

- 15 What do you know about *Sacculina*.
- 16 What is Osphradium ?
- 17 What is Hectocotylisation ?
- 18 Write briefly on sea lilies.
- 19 Mention the diagnostic features of the class Holothuria.
- 20 What is lophophore ?
- 21 Mention the habit and the habitat of *Balanoglossus*.
- 22 Write the diagnostic features of the phylum Hemichordata.

(10 × 2 = 20 marks)

### Part C

III. Paragraph Questions. Answer any *five* questions :

- 23 Describe the cephalic appendages of *Penaeus*.
- 24 Explain the digestive system of *Nereis*.
- 25 Elucidate the salient features of the class Cephalopoda, with an example.
- 26 Enlist the salient features of the class Merostomata ,with an example.
- 27 Explain the peculiarities of *Peripatus*.
- 28 Citing an example, write the salient features of the class Holothuroidea.
- 29 Explain the salient features of the phylum Mollusca.
- 30 Describe the structure of the male reproductive system of *Penaeus*.

(5 × 6 = 30 marks)

### Part D

IV. Essay Questions. Answer any *two* questions :

- 31 Describe the nervous system of *Penaeus*.
- 32 Elucidate the water vascular system in star fish.
- 33 Explain the digestive system of *Pila*.
- 34 Enlist the salient features of the phylum Annelida. Classify up to classes giving characteristic features and one example each.

(2 × 10 = 20 marks)