

**D 135253**

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Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2025**

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(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. What is 'red tide' ?
2. What is the difference between pseudopodia and other cell extensions like cilia or flagella ?
3. How does a parasite benefit from castrating its host ?
4. What are the functions of radula ?
5. What is Metamerism ?
6. Comment on the function of wheel organ in Branchiostoma.
7. What does Agnatha mean ? Cite an example.
8. What is petagium and how does it function in animals ?
9. What is In-situ conservation ?
10. Comment on WWF.
11. Describe Endemism.
12. What is Poaching ?

**Turn over**

**Section B (Paragraph/Problem Type)**

*All questions can be answered.*

*Each question carries 5 marks.*

*(Ceiling 30 marks)*

13. Discuss the role of invasive species in threatening native biodiversity.
14. Comment on retrogressive metamorphosis with special reference to ascidian tadpole.
15. Give the ecological adaptations of Rhacophorus.
16. List out the salient features of phylum Porifera.
17. Briefly explain the blood feeding adaptations of *Hirudinaria granulosa*.
18. Describe the body structure of Coelenterates. How is it adapted to their aquatic life style ?
19. Write a short note on the unique features of chamaeleon.

**Section C (Essay Type)**

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

*The question carries 10 marks.*

20. Describe the digestive system and feeding mechanism in *Penaeus*.
21. With a neat labelled diagram, explain the structure of respiratory system and mechanism of respiration in Rabbit.

(1 × 10 = 10 marks)

**D 113949**

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**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2024**

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(2019—2023 Admissions)

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. Why Noctiluca is called 'sea sparkle' ?
2. Give the functions of byssal threads in *Pinctada*.
3. What is the function of petasma ?
4. Comment on IUCN.
5. Mention two differences between the classes Chondrichthyes and Osteichthyes.
6. How is a species evaluated for its inclusion in Red Data Book ?
7. What is the role of apical complex in apicomplexan parasites ?
8. Comment on metagenesis.
9. What is the defining characteristic of subphylum cephalo-chordata ?
10. What is an invasive species ?
11. Comment on echo-location.
12. Ex- situ conservation

**Turn over**

**Section B (Paragraph/Problem Type)**

*All questions can be answered.*

*Each question carries 5 marks.*

*Ceiling 30 marks.*

13. Write an account on biodiversity hotspots with special reference to western ghats.
14. Describe the fundamental characteristics of chordates.
15. Write a note on the flight adaptations in Pteropus.
16. List out the salient features of class Aves.
17. Comment on the evolutionary significance of Peripatus.
18. With a neat labelled diagram, explain the structure of ommatidium in Penaeus.
19. Comment on Sacculina. How does it affect the host body ?

**Section C (Essay Type)**

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

*The question carries 10 marks.*

20. Explain the structure of digestive system and mechanism of digestion in *Oryctolagus cuniculus*.
21. Classify Echinodermata giving salient features of each class with example.

(1 × 10 = 10 marks)

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**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2023**

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(2021—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A**

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

- 1 What is a Medusa ?
- 2 Write notes on E-species.
- 3 Write notes on *Ascaris*.
- 4 Describe the features of Phylum Dinoflagellata.
- 5 Comment on *Echeneis*.
- 6 Briefly write on the various levels of biodiversity.
- 7 What is Metagenesis ?
- 8 Describe IUCN.
- 9 Write notes on *Plasmodium vivax* as a human pathogen.
- 10 Briefly write on the threats to biodiversity.
- 11 Write an account of the major characters of Class Aves.
- 12 Comment on *Nasikabatrachus sahyadrensis*.

(Ceiling : 20 marks)

**Section B**

II. Paragraph Questions. Each question carries 5 marks :

- 13 Write an account on the affinities of Peripatus.
- 14 Describe the distinguishing features of Bivalvia and Cephalopoda.

**Turn over**

- 15 Write notes on Sub-phylum Urochordata with examples.
- 16 Describe Polychaetes.
- 17 What are biodiversity hot spots ? Which are the hot spots located in India ?
- 18 Structure of typical vertebra of rabbit with a diagram.
- 19 What are the salient features of Phylum Chordata ?

(Ceiling : 30 marks)

### Section C

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

- 20 Explain the life history of *Fasciola hepatica*.
- 21 With neat labeled diagrams describe the brain of *Oryctolagus* ?

(1 × 10 = 10 marks)

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**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2022**

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(2019—2022 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A**

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

- 1 Briefly describe horse-shoe crab.
- 2 List the major characters of Sub-phylum Cephalochordata.
- 3 What is red tide ?
- 4 Differentiate *Ex-situ* and *In-situ* conservation methods with suitable examples.
- 5 Write notes on *Bungarus*.
- 6 Mention the major objectives of the Wild Life Protection Act 1972.
- 7 What is sea-cucumber ?
- 8 Briefly describe *Hippocampus*.
- 9 Write notes on *Noctiluca*.
- 10 What is Red Data Book ?
- 11 What are the distinguishing characters of Phylum Porifera ?
- 12 Write notes on *Petromyzon*.

(Ceiling : 20 marks)

**Section B**

II. Paragraph Questions. Each question carries 5 marks :

- 13 What are the parasitic adaptations of *Hirudinaria*.
- 14 Describe the life cycle of *Obelia*.

**Turn over**

- 15 Write down the classification of Super-class Pisces with examples.
- 16 What are the adaptations of *Pteropus* ?
- 17 Write notes on Agnatha.
- 18 What are the parasitic adaptations of *Fasciola* ?
- 19 What are biodiversity hot spots ? Which are the hot spots located in India ?

(Ceiling : 30 marks)

### Suction C

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

- 20 Describe the characters and classification of Phylum Annelida with examples.
- 21 With a neat labelled diagram describe the heart of *Oryctolagus*.

(1 × 10 = 10 marks)

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**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2021**

Zoology

**ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION  
(2019—2020 Admissions)**

Time : Two Hours

Maximum : 60 Marks

**Section A**

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

- 1 Comment on *Sacculina*.
- 2 What is the concept of sustainable development ?
- 3 Mention the characters of *Vorticella*.
- 4 What is a gemmule ?
- 5 Give an account of *Ichthyophis*.
- 6 List the different functions of WWF.
- 7 Briefly describe *Hippocampus*.
- 8 Write a short note on the concept of threatened species.
- 9 Describe the general characters of Protista.
- 10 Explain mutualism with respect to Sea-anemone.
- 11 Write notes on *Branchiostoma*.
- 12 What is the significance and use of biodiversity ?

(Ceiling : 20 marks)

**Section B**

II. Paragraph questions. Each question carries 5 marks :

- 13 What are the ecological adaptations of *Chamaeleon* ?
- 14 Write down the general characters of Phylum Mollusca.
- 15 Describe the importance and strategies of wild life conservation.

**Turn over**

- 16 What are the parasitic adaptations of *Ascaris* ?
- 17 Write down the salient features of Class Mammalia.
- 18 Briefly describe the adaptations of *Rhacophorus*.
- 19 Write notes on *Pinctada fucata*.

(Ceiling : 30 marks)

### Section C

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

- 20 Explain the water vascular system of star fish with suitable diagrams.
- 21 Write an essay on digestive system of Rabbit.

(1 × 10 = 10 marks)

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**FIRST SEMESTER (CBCSS-UG) DEGREE EXAMINATION  
NOVEMBER 2021**

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(2021 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A***Answer atleast **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall ceiling 24.*

1. What is Red Data Book ?
2. Write briefly on ex-situ conservation.
3. Citing an example explain the concept of endemism.
4. What is sustainable development ?
5. Mention the salient features of the phylum Rhizopoda.
6. What do you know about malaria ?
7. What is a living fossil. Mention two examples.
8. What is blood fluke ?
9. Explain sexual dimorphism in *Ascaris*.
10. What is retrogressive metamorphosis ? Mention an example.
11. Mention the arboreal adaptations of *Rhacophorus*.
12. Why *Narcine* is called 'electric ray' ?

(8 × 3 = 24 marks)

**Turn over**

**Section B**

*Answer atleast **five** questions.*

*Each question carries 5 marks.*

*All questions can be attended.*

*Overall ceiling 25.*

13. Write briefly on the threats to biodiversity.
14. Explain the salient features of the phylum Porifera.
15. Classify the phylum Coelenterata down to classes giving salient features and one example for each class.
16. Write a note on the poisonous snakes you have studied.
17. With a labeled sketch explain the structure of the pelvic girdle of *Oryctolagus*.
18. With labeled diagrams explain the abdominal appendages of *Penaeus*.
19. Write the salient features of the phylum Mollusca.

(5 × 5 = 25 marks)

**Section C**

*Answer any **one** question.*

*The question carries 11 marks.*

20. With labeled diagrams explain the structure of the brain of *Oryctolagus*.
21. With a labeled diagram explain the structure and working of the compound eye of *Penaeus*.

(1 × 11 = 11 marks)