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FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION NOVEMBER 2020

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE CONSERVATION

(2019 Admissions)

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. Write on IUCN.
- 2. What is sustainable development?
- Write briefly on The Wildlife Protection Act, 1972.
- 4. Distinguish between Urochordata and Cephalochordata.
- 5. Write briefly on extinction of species.
- 6. Mention the flying adaptations of *Pteropus*.
- 7. Citing one example each distinguish between neurotoxic and haemotoxic venom.
- 8. Mention the salient features of the phylum Apicomplexa.
- 9. Write a brief note on Vorticella.
- 10. What are choanocytes?
- 11. What is a hermit crab?
- 12. Write a note on the 'ship worm'.

 $(8 \times 3 = 24 \text{ marks})$

Section B

2

Answer at least **five** questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

- 13. What is a biodiversity hot spot? Write a note on the biodiversity hot spots coming under Indian region.
- 14. What are the salient features of Agatha? Write briefly on the examples you have studied.
- 15. Enlist the salient features of the super class Pisces.
- 16. Classify the phylum Echinodermata down to classes mentioning the salient features and one example each.
- 17. Write an account the human neamatode parasites you have studied.
- 18. Explain the dentition in Oryctolagus.
- 19. With labeled diagrams explain the structure of the cephalic appendages of Penaeus.

 $(5 \times 5 = 25 \text{ marks})$

Section C

Answer any one question.

Each question carries 11 marks.

- 20. With a labeled diagram explain the nervous system of Penaeus.
- 21. With labeled diagrams explain the respiratory system of Oryctolagus.

D 93954	(Pages : 2)	Name

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FIRST SEMESTER (CBCSS-UG) DEGREE EXAMINATION, NOVEMBER 2020

Zoology

ZOL 1B 01T-ANIMAL DIVERSITY: NON-CHORDATA-Part I

(2019 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. Mention the salient features of the phylum Dinoflagellata.
- 2. What is metamerism?
- 3. Explain mutualism with reference to Trichonympha
- 4. Distinguish between enterocoelom and schizocoelom.
- 5. What is binomial nomenclature?
- 6. What is wheel organ?
- 7. What are corals? Mention an example.
- 8. Mention the salient features of the subkingdom Mesozoa.
- 9. Write briefly on a freshwater sponge you have studied.
- 10. Mention the larval forms of Fasciola.
- 11. Write briefly on polymorphism with reference to Physalia.
- 12. What is lymphatic filariasis?

 $(8 \times 3 = 24 \text{ marks})$

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 development of symmetry in animals.
- 14. Explain osmoregulation in Paramecium.

- 15. Write the five kingdom classification of living organisms.
- 16. Explain the unique features of the phylum Ctenophora as exemplified by Pleurobrachia.
- 17. With a labeled diagram explain the digestive system of Dugesia.
- 18. Write a note on two human nematode parasites.
- 19. With a labeled diagram explain the asconoid canal system in sponges.

 $(5 \times 5 = 25 \text{ marks})$

Section C (Essay Questions)

Answer any **one** question. The question carries 11 marks.

- 20. Explain the modern trends in systematics.
- 21. With a labeled diagram explain the general external morphology of Obelia.

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FIRST SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2020

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILD LIFE

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Time: Three	Hours	Maximum: 64 Marks
	Part A	
I. One Wo	ord Questions. Answer all questions. Each question carries 1 ma	rk
1	Which organism is known as 'bell animalcule'?	
2	is a parasitic arthropod.	•
3	The salivary glands of <i>Hirudinaria</i> contains an a called ————.	inticoagulant enzyme
4	Mention the class to which Arenicola belongs.	
5	is a jawless vertebrate.	
6	is a limbless amphibian.	
7	Endoskeleton is cartilage in——— fish.	
8	Mention an ovo-viviparous, poisonous snake.	
9	Biodiversity Act in India was introduced in the year —	
10	National park is an example for — method of co	nservation.
	David B	$(10 \times 1 = 10 \text{ marks})$
	Part B	
II. Short A	unswer Questions. Answer any $seven$ questions. Each question ca	arries 2 marks :
11	What do you know about choanocytes?	
12	Comment on the life cycle of Fasciola.	
13	Mention the characters of the class Chondrichthyes.	
14	Write the adaptations of Chamalaeo.	
15	Explain coprophagy in rabbit	

- 16 Mention the salient features of the kingdom Monera.
- 17 Write on hectocotylisation.
- 18 What is a living fossil? Mention two examples.
- 19 What do you mean by ex-situ conservation? Mention two examples.
- 20 Explainthe concept of sustainable development.

 $(7 \times 2 = 14 \text{ marks})$

Part C

2

- III. Paragraph Questions. Answer any four questions. Each question carries 5 marks.
 - 21 Explain the major threats to biodiversity.
 - 22 With a labelled diagram explain the structure of the pelvic girdle of rabbit.
 - 23 Explain dentition in rabbit.
 - 24 With labelled diagrams explain the cephalic appendages of *Penaeus*.
 - What are the salient features of the phylum Platyhelminthes. Write briefly on two examples you have studied.
 - Write the distinguishing features of Urochordata and Cephalochordata. Add a brief note on one example each.

 $(4 \times 5 = 20 \text{ marks})$

Part D

- IV. Essay Questions. Answer any two questions. Each question carries 10 marks:
 - 27 Explain the respiratory system and mechanism of respiration in *Penaeus*.
 - 28 With labelled diagrams explain the respiratory organs of rabbit. Add a note on the mechanism of respiration.
 - 29 Sketch and label the internal structure of the heart of rabbit. Explain the structure and working of the heart.
 - What are the salient features of the phylum Arthropoda? Classify upto classes. Write brief notes on one example each.

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FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION NOVEMBER 2020

(CUCBCSS)

Zoology

ZOL 1B 01—ANIMAL DIVERSITY: NON-CHORDATA—I

Time: Three Hours Maximum: 80 Marks

Part A

- I. One Word Questions. Answer all questions. Each question carries 1 mark:
 - 1 Name the free swimming larva of Obelia.
 - 2 Name the symbiotic protist that helps cellulose digestion in termites.
 - 3 Type of taxonomy based on antigen-antibody reaction.
 - 4 The phylum to which Plasmodium belongs.
 - 5 Common name of Physalia.
 - 6 The phylum to which Brachionus belongs.
 - 7 Name the snail host of Fasciola.
 - 8 Name a larva of Porifera.
 - 9 Name the most complex canal system in sponges.
 - 10 The defensive zooids in coelenterates.

 $(10 \times 1 = 10 \text{ marks})$

Part B

- II. Short Answer Questions. Answer any ten questions. Each question carries 2 marks:
 - 11 What are germ layers?
 - 12 Write any four features of Rotifera.
 - 13 Comment on the structure and function of cnidoblast.
 - 14 Comment on commensalism in Adamsia.
 - 15 What is trinominal nomenclature?
 - 16 Distinguish between radial and biradial symmetry with example.

- 17 Define Metagenesis. Why is it not true metagenesis in Obelia?
- 18 Write any four features of Gastrotricha.
- 19 What is cytotaxonomy?
- 20 What is the significance of gemmule?
- 21 Differentiate between pseudocoelom and eucoelom.
- 22 Physalia shows polymorphism. How?

 $(10 \times 2 = 20 \text{ marks})$

Part C

- III. Paragraph Questions. Answer any five questions. Each question carries 6 marks:
 - 23 Describe the unique features of Pleurobrachia with diagram.
 - 24 Differentiate between class Hydrozoa and class Scyphozoa.
 - 25 Briefly explain Five kingdom classification.
 - 26 Describe the salient features of Mesozoa.
 - 27 Describe nutrition in Paramecium.
 - 28 What is ICZN? Discuss the rules.
 - 29 Give an account of the salient features of the Kingdom Protista.
 - 30 Write notes on: (a) Phenetics; (b) Cladistics; and (c) Molecular taxonomy.

 $(5 \times 6 = 30 \text{ marks})$

Part D

- IV. Essay Questions. (Answer any two questions). Each question carries 10 marks:
 - 31 Explain conjugation in *Paramecium* with diagrams.
 - 32 Explain the features of the phylum Nematoda. Write on the important human nematode parasites.
 - 33 Explain the types of canal systems in sponges.
 - 34 Explain the morphology and life cycle of Obelia.

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	FIRST SEMESTER (CBCSS-	-UG) DEGREE	EXAMINATION
	NOVEM	BER 2021	
	Zoo	ology	
	ZOL 1C 01—ANIMAL DIVERSITY	AND WILDLIFE	E CONSERVATION
	(2019—2020	Admissions)	10
Time : T	wo Hours		Maximum : 60 Marks
	Sect	cion A	
I. Sho	ort answer questions. Each question carr	ies 2 marks :	
1	Comment on Sacculina.		0,
2	What is the concept of sustainable deve	elopment?	
3	Mention the characters of Vorticella.		
4	What is a gemmule ?	02,	
5	Give an account of Ichthyophis.		
6	List the different functions of WWF.		
7	Briefly describe Hippocampus.	Ť	
8	Write a short note on the concept of thr	eatened species.	
9	Describe the general characters of Proti	sta.	
10	Explain mutualism with respect to Sea	-anemone.	

Section B

(Ceiling: 20 marks)

Turn over

Write notes on Branchiostoma.

12 What is the significance and use of biodiversity?

II. Paragraph questions. Each question carries 5 marks:

13 What are the ecological adaptations of Chamaeleon?

Write down the general characters of Phylum Mollusca.

15 Describe the importance and strategies of wild life conservation.

- 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.

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	Zoology	
	ZOL 1B 01T—ANIMAL DIVERSITY : NON CHORD.	ATA PART—I
	(2019—2020 Admissions)	
lime : Two	Hours	Maximum : 60 Marks
	Section A	
I. Short a	nswer questions. Each question carries 2 marks :	
1	Write notes on different types of symmetry.	
2	Write down the salient features of phylum dinoflagellates.) '
3	Briefly describe Ascaris.	
4	Mention unique features of Pleurobrachia.	
5	What is gemmule? Mention its significance.	
6	What is hexacanth embryo?	
7	What is Dicyemida?	
8	Write notes on Rotifera.	
9	Define the features of class trematoda with example.	
10	What is red tide?	
11	Define natural system of classification.	
12	What is DNA Barcoding?	
		(Ceiling: 20 marks)
	Section B	
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- II. Paragraph questions. Each question carries 5 marks:
 - 13 Distinguish phenetics and cladistics in detail.
 - 14 Describe the morphology of Paramecium with suitable diagram.
 - 15 What is coelom? Mention its types.

- 16 Write notes on Potuguese-man of war.
- 17 Describe the life cycle of Obelia.
- 18 Write notes on pseudocoelomate minor phyla.
- 19 Write down the characters of Aschelminthes.

(Ceiling: 30 marks)

Section C

- III. Essay questions. Answer any one question:
 - 20 Write an essay on canal system of sponges.
 - 21 Describe the classification of Phylum Platyhelminthes giving examples.

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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'?

 $(8 \times 3 = 24 \text{ marks})$

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.

 $(5 \times 5 = 25 \text{ marks})$

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.

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

Zoology

ZOL 1B 01T—ANIMAL DIVERSITY: NON CHORDATA PART—I

(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 is chemotaxonomy?
- 2. Write briefly on DNA barcoding.
- 3. Mention the salient features of the Kingdom Monera.
- 4. What is triploblasty?
- 5. Explain dimorphism of nuclei in Paramecium.
- 6. Write briefly on Dicyema.
- 7. Write on the larval forms of sponges.
- 8. Explain alternation of generation with reference to Obelia.
- 9. Write briefly on mutualism with reference to Adamsia.
- 10. What do you know about hook worm?
- 11. What is parthenogenesis? Give an example.
- 12. What are gastrotrichs?

 $(8 \times 3 = 24 \text{ marks})$

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 development of coelom in animals.
- 14. Write a note on zoological nomenclature.

- 15. Explain the salient features of the phylum Dinoflagellata. Write briefly on an example you have studied.
- 16. Write a brief account on polymorphism in coelenterates.
- 17. Classify the phylum Platyhelminthes down to classes mentioning salient features and one example each.
- 18. Explain the characteristic features of Ascaris.
- 19. Write the unique features of the phylum Ctenophora.

 $(5 \times 5 = 25 \text{ marks})$

Section C (Essay Questions)

Answer any one question. The question carries 11 marks.

- 20. Explain the canal systems in sponges.
- 21. With illustrations explain conjugation in Paramecium.

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

Zoology

ZOL 1C 01—ANIMAL DIVERSITY AND WILDLIFE

	(2016—2018 Admissions)	
Time: Thr	ee Hours	Maximum: 64 Marks
	Part A	
I. One	word questions. Answer all questions. Each carries 1 mark :	
	Which organism is associated with 'red tide'?	
:	2 ———— is an aquatic insect.	
;	B Teredo belongs to the class ————.	
4	Mention an organism which exhibits metagenesis.	
5	Tunicin is found in ———— animal.	
(is a lamprey.	
,	fish exhibits parental care.	
8	Zygodactyly is seen in ———.	
9	Conserving wildlife away from their natural habitat is called —	conservation.
10	Environment(Protection)Act was introduced in India in the year	ar ———.
		$(10 \times 1 = 10 \text{ marks})$
	Part B	
II. Short	answer questions. Answer any seven questions. Each carries 2 ma	arks :
11	Distinguish between polyp and medusa.	
12	Write on sexual dimorphism in Ascaris.	
13	Mention the salient features of the kingdom Monera.	
14	Comment on Arenicola.	

- Write on the ambulacral apparatus of Asterias.
- 16 Mentioning the dental formula, explain the dentition in rabbit.
- 17 Write the most salient features of the class Aves.
- 18 Explain why *Echeneis* is called sucker fish.
- 19 What is in-situ conservation?
- 20 What do you know about IUCN?

 $(7 \times 2 = 14 \text{ marks})$

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Part C

2

- III. Paragraph questions. Answer any four questions. Each carries 5 marks:
 - 21 Explain the major threats to biodiversity.
 - 22 Explain the mechanism of regulation of heart beat in rabbit.
 - 23 With labelled diagrams explain the structure of the pectoral girdle of rabbit.
 - 24 With a labelled diagram explain the structure of the compound eye in *Penaeus*.
 - 25 Write the salient features of the phylum Annelida. Add a note on two examples.
 - 26 Mention the salient features of the class Amphibia. Write a note on two examples.

 $(4 \times 5 = 20 \text{ marks})$

Part I

- IV. Essay questions. Answer any two questions. Each carries 10 marks:
 - 27 With labelled diagrams explain the thoracic and abdominal appendages of Penaeus.
 - With an illustration explain the digestive system of rabbit. Add a note the mechanism of digestion.
 - 29 Draw labelled sketches of the dorsal and ventral views of the brain of rabbit. Explain the structure.
 - 30 Mention the salient features of the superclass Pisces. Classify upto classes giving diagnostic characters. Write brief notes on one example each.

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FIRST SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION NOVEMBER 2021

Zoology

ZOL 1B 01—ANIMAL DIVERSITY: NON CHORDATA I

(2016-2018 Admissions)

Time: Three Hours Maximum: 80 Marks

Part A

- I. One Word Questions. Answer all questions. Each Question carries 1 mark:
 - 1 Mention the phylum with pseudocoelom.
 - 2 Expand ICZN.
 - 3 The class of flatworms with ciliated epidermis.
 - 4 Mention the osmoregulatory structure of Paramecium?
 - 5 Name the collared flagellated cells of Porifera.
 - 6 The class to which Spongilla belongs to.
 - 7 Name the larva of Pleurobrachia
 - 8 Disease caused by Fasciola.
 - 9 Name the cnidarian class with non-cellular mesogloea.
 - 10 Name the excretory organ of flatworms.

 $(10 \times 1 = 10 \text{ marks})$

Part B

- II. Short Answer Questions. Answer any ten questions. Each question carries 2 marks:
 - 11 Differentiate artificial and natural systems of classification.
 - 12 Represent the route of water flow in sycon type of canal system.
 - 13 What is binomial nomenclature?
 - 14 What is enidoblast?

- 15 Distinguish between homology and analogy.
- 16 Comment on sexual dimorphism in Ascaris.
- 17 Differentiate between polyp and medusa.
- 18 What are germ layers?
- 19 Differentiate between protostomes and deuterostomes.
- 20 Comment on the association between Trichonympha and termites
- 21 Comment on polyembryony in Fasciola.
- 22 What is blastostyle?

 $(10 \times 2 = 20 \text{ marks})$

Part C

2

- III. Paragraph Questions. Answer any five questions. Each question carries 6 marks:
 - 23 Differentiate between class Calcispongiae and Demospongiae.
 - 24 Describe the salient features of Mesozoa.
 - 25 Distinguish between polyp and medusa with diagrams.
 - 26 Write on phylum Rotifera with example.
 - 27 Discuss the rules of nomenclature.
 - 28 Explain locomotion in Paramecium.
 - 29 Write briefly on new trends in taxonomy.
 - 30 Explain the morphology of Obelia.

 $(5 \times 6 = 30 \text{ marks})$

Part D

- IV. Essay Questions. Answer any two Questions. Each Question carries 10 marks.
 - 31 Write on the features of phylum Coelenterata. Classify the phylum with examples.
 - 32 Explain canal system in sponges.
 - 33 Write on the features of phylum Platyhelminthes. Classify the phylum with examples.
 - 34 What is metagenesis? Explain the phenomenon in Obelia.