(Pages : 3) **P – 7742**

Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, March 2023

First Degree Programme under CBCSS

Zoology

Core Course I

ZO 1141 : ANIMAL DIVERSITY-I

(2015-2018 Admission)

Time : 3 Hours Max. Marks : 80

I. Answer the following questions in **one** or **two** sentences, each carries **1** mark.

1. Taxonomy.
2. Diploblastic.
3. Enumetazoa.
4. *Obelia*.
5. ICZN
6. Protostomia
7. *Rhopalura*
8. *Ascaris*
9. Nomenclature
10. Parazoa

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following not to exceed one paragraph. Each carries **2** marks.

11. *Noctiluca*
12. Meninges
13. Euglena
14. Interneurons
15. Metamerism
16. Physalia
17. *Echinus*
18. *Fasciola hepatica*
19. Metagenesis
20. Hind brain
21. Monoplacophora
22. Measley pork

(8 × 2 = 16 Marks)

III. Answer any **six** of the following not to exceed 120 words. Each carries **4** marks.

23. Give the characters of Mesozoa.
24. Write the characters of *Peripatus*.
25. Mussel farming.
26. Write down the classification of Coelenterata.
27. Economic importance of insects.
28. Classify animals on the basis of Coelom.

29. Differentiate between Asexual and Sexual reproduction.

30. Write down the classification of Echinodermata.

31. Sketch and label the mouth parts of Mosquito.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following. **Each** carries **15** marks.

32. Write an essay on parasitic nematodes.

33. With diagrammatic features, explain the larval forms of *Penaeus*.

34. Explain the water vascular system with example.

35. Write an essay on Parasitic Protozoans.

(2 × 15 = 30 Marks)

(Pages : 3) P – 7743

Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, March 2023

First Degree Programme under CBCSS

Zoology

Core Course – I

ZO 1141 : ANIMAL DIVERSITY – I

(2019 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Answer **all** questions in **one** or **two** sentences. Each question carries **1** mark.

1. What is trinomial nomenclature?
2. What is pedicellaria?
3. What is cephalisation?
4. What is a pseudocoelomate?
5. Write any two salient features of Demospongia.
6. Comment on Fasciolasis.
7. Name any two pests of coconut.
8. What is petasma?
9. What is saprozoic nutrition?
10. What are flame cells?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** questions. (Each question carries **2** marks and answers should not exceed one paragraph)

11. Write notes on polymorphism in Physalia.

12. Comment on the preventive measures for Taeniasis.

13. What is radula. Mention its function.

14. Comment on the pathogenicity of Schistosoma.

15. Write short notes on Polyembryony in *Fasciola*.

16. Describe the mode of infection of *Wuchereriasis*

17. Explain the parasitic adaptations of Ascaris.

18. What are pinacocytes?

19. Write notes on Limulus.

20. Comment on Aristotle's lantern.

21. Describe the characteristic features of Sacculina.

22. Give a brief account on Chiton.

(8 × 2 = 16 Marks)

III. Answer any **six** questions. (Each question carries **4** marks; each answer should not exceed 120 words).

23. Explain the economic importance of molluscs.

24. Describe the respiratory system of prawn.

25. With a neat labelled sketch, describe the mantle cavity and pallial complex of Pila.

26. Explain the different types of Coral reefs and their importance.

27. Describe the salient features of Echinodermata and classify down to classes.

28. Give an account on the pests of paddy.

29. Explain the characteristic features of Porifera.

30. Explain the special features of class Ophiuroidea.

31. Distinguish between Neries and Heteroneries.

(6 × 4 = 24 Marks)

IV. Answer any **two** questions. (Each question carries **15** marks).

32. Explain the morphology, lifecycle and pathogenicity and prophylaxis of *Entamoeba histolytica.*

33. Enlist the salient features of Phylum Platyhelminthis. Classify the phylum down to classes with examples

34. Describe the cephalic and thoracic appendages of prawn with suitable diagrams.

35. What down the salient features of Phylum Mollusca and classify down to classes with examples.

(2 × 15 = 30 Marks)

(Pages : 3) P – 7798

Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, March 2023

First Degree Programme under CBCSS

Zoology

Complementary Course for Psychology

ZO 1131.2 : BRAIN AND BEHAVIOUR

(2019 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Answer **all** the questions. (In **one** or **two** sentences).

1. Mention the Area of Speech control in Brain.
2. What is Wernicke's area?
3. Give the role of Corpus callosum.
4. Name the part known as the Mid- Brain.
5. What constitutes the Brain stem?
6. Comment on *Arbor vitae*.
7. Where is Foramen of Munro situated?
8. Which part of Brain has Grey matter?
9. Give the source for Myelin sheath.
10. Comment on Sodium-Potassium pump.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following questions (Not to exceed **one** paragraph).

11. Give a short note on Hippocampus.

12. Describe a Bipolar neuron.

13. What are the steps in the generation of an Action potential?

14. Comment on Brain Lesioning.

15. State the contribution of Ivan petrovitch Pavlov in Learning.

16. Comment on the Autonomic nervous system.

17. Give the cause and symptom of Parkinson's disease.

18. Briefly explain the role of Meninges.

19. Comment on Chemical Messengers in nerve transmission.

20. Write a short note on Epilepsy disorder.

21. Give the role of *Amygdala* in human behaviour.

22. Comment on any Functional Imaging Technique.

(8 × 2 = 16 Marks)

III. Answer any **six** of the following questions. (Not to exceed **120** words).

23. Write a short note on terminal boutons.

24. Explain limbic system of the forebrain and mention its function.

25. State the reasons for apraxia.

26. Describe saltatory conduction.

27. What are Telodendria?

28. State part of the brain which means "the bridge' in Latin.

29. Comment on Expressive Aphasia.

30. Name the two deep fissures or "valleys" seen on human brain.

31. Comment on different types of Brain Waves.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following questions.

32. Elaborate on Nerve impulse conduction stages.

33. Describe the important medical problems involving the Spinal cord.

34. Explain the variations met in lateralization of languages.

35. Write on the various techniques in Stimulation of brain and Lesioning.

(2 × 15 = 30 Marks)

(Pages : 3) P – 7733

Reg. No. : .....

Name : .....

First Semester B.Sc. Degree Examination, March 2023

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1131.1 : ANIMAL DIVERSITY I

(2015 Admission Onwards)

Time : 3 Hours Max. Marks : 80

Draw diagrams wherever necessary.

I. Answer the following questions (in **one** or **two** sentences. **1** mark each)

1. Amoebiasis
2. Bipinnaria larva
3. Protostomia
4. Pseudocoelomates
5. Macronucleus in Paramecium
6. Tube feet
7. Osculum
8. Measly pork

9. Nuchal organs

10. *Tribolium*

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following (not to exceed **one** paragraph). Each carries **2** marks)

11. Parasitic castration

12. Phylogenetic importance of *Peripatus*

13. Madreporite

14. Evisceration in Holothuroidea

15. Dinoflagellates

16. Sketch and label Flame cell

17. Five kingdom classification

18. Cnidocyst- structure and function

19. Trichinellosis

20. Polymorphism in *Obelia*

21. *Scolopendra*

22. Brief note on Class Anthozoa

(8 × 2 = 16 Marks)

III. Answer **six** of the following (not to exceed **120** words. each carries **4** marks)

23. Parasitic adaptations of nematodes

24. Pearl culture

25. Levels of organization in animals

26. Cuttle fish

27. Fascioliasis

28. Medusa

29. Class Arachnida

30. Sea urchins

31. Protostomes and deuterostomes

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following (each carries **15** marks)

32. Economic importance of molluscs.

33. Classify phylum Platyhelminthes with salient features and examples.

34. Write an account of corals and coral reefs.

35. Describe the salient features of phylum Arthropoda in detail.

(2 × 15 = 30 Marks)
