



31232

NEP

B.Sc. II Semester Degree Examination, September/October 2023

ZOOLOGY

Paper – Z 2.1 : Biochemistry and Physiology

Time : 3 Hours

Max. Marks : 60

- Instructions :** 1) Part – A : All questions are **compulsory**.
2) Part – B : Answer **any five full** questions.
3) Draw neat labelled diagrams **wherever** necessary.

PART – A

Answer the following.

(10×1=10)

1. a) Glycosidic bonds.
- b) Essential amino acids.
- c) Chloride shift.
- d) Cardiac cycle.
- e) Nucleotides.
- f) Rh-factor.
- g) Neurotransmitters.
- h) Gluconeogenesis.
- i) Henle's loop.
- j) Co-factors.

PART – B

Answer **any five full** questions of the following.

(5×10=50)

2. a) Explain the process of carbohydrate digestion. 10
- b) Write a note on nomenclature and classification of enzymes with examples.

P.T.O.





3. a) Write the schematic representation of citric acid cycle. 10
b) Explain pulmonary ventilation.
4. a) Explain mechanism of blood clotting. 10
b) Write a note on glands associated with G.I. tract.
5. a) Explain the mechanism of urine formation. 10
b) Describe the structure of neuron.
6. a) Write a note on thyroid as an endocrine gland. 10
b) Explain briefly hormones secreted by anterior pituitary.
7. a) Describe the ultrastructure of skeletal muscles. 10
b) Write a note on levels of organisation in proteins.
8. a) Explain sliding filament theory of muscle contraction. 10
b) Write a note on transport of respiratory gases.
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27225

B.Sc. II Semester Degree Examination, September/October 2023

ZOOLOGY

Paper – Z – 2.1 : Biology of Chordata and Osteology
(Non NEP) (New)

Time : 3 Hours

Max. Marks : 60

- Instructions :**
- 1) **Part – A : All questions are compulsory.**
 - 2) **Part – B : Answer any five questions out of seven questions.**
 - 3) **Draw neat labelled diagram wherever necessary.**

PART – A

I. Answer the following questions :

(10×1=10)

- 1) Agnatha
- 2) Heterocercal fin
- 3) Syrinx
- 4) Metamorphosis
- 5) Digitilates
- 6) Suctorial Mouth
- 7) Palaeognathae
- 8) Scute
- 9) Heterodont
- 10) Guano.

PART – B

Answer any five questions of the following :

- II. a) Sketch and label pectoral girdle of frog.
- b) Distinctive features of Hemichordata.
- III. a) General characters of Cyclostomata.
- b) Characters of Mammalia.

(2×5=10)

(2×5=10)

P.T.O.



27225



- IV. a) General characters of Amphibia. (2×5=10)
b) Ecology and distribution of Hyla and Bufo.
- V. a) Types of scales in fishes. (2×5=10)
b) Key points to identify poisonous snakes.
- VI. Briefly explain outline classification of Chordates upto classes with examples. (10×1=10)
- VII. General characters and classification of Aves with examples. (10×1=10)
- VIII. Digestive system of rat. (10×1=10)
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27225

B.Sc. II Semester Degree Examination, September/October 2022

ZOOLOGY

Paper – 2.1 : Biology of Chordata and Osteology (New)

Time : 3 Hours

Max. Marks : 60

- Instructions :**
- 1) Part – A : All questions are **compulsory**.
 - 2) Part – B : Answer **any five** questions out of seven questions.
 - 3) Draw neat labelled diagrams **wherever** necessary.

PART – A

Answer the following questions.

(10×1=10)

- I. 1) Guano.
- 2) Homocercal fin.
- 3) Poikilotherms.
- 4) Myotomes.
- 5) Monocondylic skull.
- 6) Thecodont.
- 7) Sphenodon.
- 8) Tunicates.
- 9) Hyla.
- 10) Notochord.

PART – B

Answer **any five** of the following.

(5×10=50)

- II. a) Sketch and label pectoral girdle of frog.
- b) Explain types of scales in fishes.

(2×5=10)

P.T.O.





- III. a) Write the classification of Amphibia upto orders with suitable examples. (2×5=10)
b) Write the general characters of class Pisces with suitable example.
- IV. a) Write the key points to identify poisonous snakes. (2×5=10)
b) Give the outline classification of vertebrata upto classes with examples.
- V. a) Briefly explain the morphology of Petromyzon. (2×5=10)
b) Write the distinctive features of Metatheria.
- VI. Write the general characters of Reptilia and classify upto orders with examples. (1×10=10)
- VII. Give an account on flight adaptation in birds. (1×10=10)
- VIII. Describe the digestive system of Rat. (1×10=10)
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11226(Old)

B.Sc. II Semester Degree Examination, April/May - 2019

ZOOLOGY

Biology of Chordata and Histology

Paper - 2.1 [0.S]

(Old)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer should be specific to the question.
2. Draw neat labelled diagram wherever necessary.

I. Answer any TEN of the following.

(10×2=20)

1. Homothermic
2. Tunic
3. Hibernation
4. Pneumatic bones
5. Homodont
6. Corpus luteum
7. Viviparity
8. Gnathostomata
9. Rodentia
10. Neoteny
11. Sinusoids
12. Primate

II. Answer any FOUR of the following.

(4×5=20)

13. Histology of Liver
14. General features of Petromyzon
15. Ecology and distribution of Bufo and Salamander.

[P.T.O.]





(2)

11226(Old)

16. General characters of caphalochordata with example.
17. Digestive system of Rat.
18. General characters of Archaeorinilthes.

III. Answer any **FOUR** of the following.

(4×10=40)

19. Histology of Testis
20. Describe Flight adaptation in birds.
21. Explain Venous system of Rat
22. Write the General characters of Amphiba and classify upto orders with suitable examples.
23. Write the General characters of Pisces and difference between Chondrichthyes and Osteichthyes.
24. Describe the characters of two Poisonous and two non-Poisonous snakes of India.

B.Sc. II Semester Degree Examination, May-2018**ZOOLOGY****Biology of choradata and Histology****Paper - 2.1**

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) Answer should be specific to the questions.
- 2) Draw neat labelled diagram wherever necessary.

I. Answer any TEN of the following questions :**(10×2=20)**

1. Tunic
2. Tubiculous
3. Crocodalia
4. Perching
5. Patagia
6. Corpus luteum
7. Diphodont
8. Cloaca
9. Gastric glands
10. Pneumatic bones
11. Occipital condyles
12. Carnivora

II. Answer any FOUR of the following :**(4×5=20)**

13. General characters of urochordata with examples.
14. Classification of Amphibia upto orders.
15. Medicinal and Agricultural value of Birds.
16. Histology of Pancrease.

[P.T.O]



17. Distinctive features of prototheria and Metatheria.
18. Outline classification of vertebrata upto classes with examples.

III. Answer any **FOUR** of the following.

(4×10=40)

19. General organization, Distribution and Ecology of Petromyzon.
 20. General characters of Reptilia classification upto order with examples.
 21. Explain the venous system of Rat.
 22. Histology of Testis
 23. General characters of Archaeornithes and Neornithes with examples.
 24. Write the General characters of pisces and differentiate the osteichthyes and chondrichthyes.
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11226

B.Sc. II Semester Degree Examination, May/June 2017
ZOOLOGY

Paper – 2.1 : Biology of Chordata and Histology

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Answer should be **specific** to the questions.
2) **Draw neat labelled diagram wherever necessary.**

I. Answer **any ten** of the following questions :

(2×10=20)

- 1) Sphenodon
- 2) Poikilotherms
- 3) Oviparous
- 4) Nocturnal
- 5) Acinar cells
- 6) Villi
- 7) Hemichordata
- 8) Gill slits
- 9) Ichthyophis
- 10) Cleidoic egg
- 11) Balanoglosses
- 12) Medicinal value of birds.

II. Answer **any four** of the following :

(5×4=20)

- 13) Ecology and distribution of Hyla and Bufo.
- 14) Poison apparatus of cobra.
- 15) Histology of thyroid gland.
- 16) Female reproductive system of rat.
- 17) General characters of class chondrichthyes.
- 18) Distinctive features of Archaeornithes.

P.T.O.





(10×4=40)

III. Answer any four of the following :

- 19) Describe Retrogressive metamorphosis in urochordata.
 - 20) Explain Venous system of rat.
 - 21) Give an account on flight adaptations in birds.
 - 22) Write the general characters of Mammalia with examples.
 - 23) Describe the histology of ovary.
 - 24) Write the general characters of Amphibia and classify with examples.
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