

Q.P. Code – 42343

Third Semester B.Sc. Degree Examination, October/November 2019

(CBCS Scheme)

Zoology

Paper III — PHYSIOLOGY AND HUMAN ANATOMY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labeled diagrams wherever necessary.

PART – A

I. Answer any **TEN** of the following :

(10 × 2 = 20)

1. What is Homeostasis?
2. Mention gastro-intestinal disorders of man.
3. What is Expiratory Reserve Volume (ERV)?
4. Name the Respiratory pigments.
5. Write the composition of normal urine.
6. What is coronary thrombosis?
7. Define resting membrane potential.
8. List the functions of Thyroid gland.
9. Draw a neat labeled diagram of Atlas.
10. Define venous system.
11. What is Renal corpuscle?
12. Name different parts of female reproductive system.

PART – B

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

(6 × 5 = 30)

13. Describe the physiology of carbohydrate absorption.
14. Explain the effects of smoking.

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15. Write a note on Anaemia.
16. Explain the structure of Neuron.
17. With a labeled diagram explain the Human Scapula.
18. Explain the oral cavity of man.
19. Draw a neat labeled diagram of V.S. of Human heart.
20. Explain the Respiratory system of man.

PART – C

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

(4 × 10 = 40)

21. Explain Ammonotelism and Uricotelism, Add a note on formation of urea.
22. Describe origin and conduction of cardiac impulse.
23. Write notes on :
 - (a) Sliding filament theory of muscle contraction.
 - (b) Ultra structure of skeletal muscle.
24. Describe the structure and functions of Adrenal gland.
25. With a neat labeled diagram, Explain the Human Hind limb bones.
26. Explain the Gross structure of Human Brain.

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Third Semester B.Sc. Degree Examination, November 2017

(CBCS – New Scheme)

Zoology

Paper III – PHYSIOLOGY AND HUMAN ANATOMY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw labelled diagrams wherever necessary.

- I. Answer any **TEN** of the following: (10 × 2 = 20)
1. What is positive feed back mechanism?
 2. Name any two Hormones controlling pancreatic juice secretion.
 3. What is Uricotelism? Give an example.
 4. Give an account of Cardiac cycle.
 5. Sketch and label Neuron.
 6. Write the chemical composition of skeletal muscle.
 7. Mention the functions of Adrenal gland.
 8. Draw a neat labelled diagram of Atlas.
 9. Mention the types of salivary glands in man.
 10. What is Dental formula? Write the Dental formula of man.
 11. Sketch and label V.S of human kidney.
 12. Mention any four parts of female reproductive system of man.
- II. Answer any **SIX** of the following: (6 × 5 = 30)
13. Describe the mechanism of carbohydrate absorption.
 14. Explain Respiratory volumes.
 15. Describe water balance in Camel.

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16. Write a note on Angioplasty.
17. Explain the structure of Thyroid gland.
18. With labelled diagram, explain the Innominate bone of man.
19. Describe the structure of liver in man.
20. Draw a neat labelled diagram of Arterial system of man.

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

(4 × 10 = 40)

21. Explain pulmonary ventilation.
 22. Explain formation of urea and add a note on composition of normal urine.
 23. With a neat labelled diagram, explain the ultra structure of skeletal muscle.
 24. Explain the Hormonal control of Spermatogenesis.
 25. With labelled diagram, explain the skull of man.
 26. Explain the gross structure of Eye with labelled diagram.
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III Semester B.Sc. Examination, November/December 2016
(Semester Scheme)
ZOOLOGY
Chordata (Part – I)

Time : 3 Hours

Max. Marks : 60

Instruction : Draw *neat* labelled diagrams *wherever* necessary.

PART – A

I. Answer **any five** of the following :

(5×3=15)

- 1) Draw a neat labelled diagram of Ascidia.
- 2) Explain the accessory respiratory organs of Heteropneustes.
- 3) Give an account of parental care in Pipa.
- 4) Classify the class Amphibia upto orders with examples.
- 5) List the interesting features of Crocodile.
- 6) Mention the features of carinatae.
- 7) List any six general characters of Birds.

PART – B

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

(5×5=25)

- 1) Explain the externals of Balanoglossus.
- 2) List any five general characters of cyclostomata.
- 3) Mention the interesting features of Dipnoi.
- 4) Describe the Pulmonary respiration in Frog.
- 5) With a neat labelled diagram, explain the Pectoral girdle of Frog.
- 6) List out the economic importance of Reptiles.
- 7) Describe Radio-collaring technique in bird migration.

PART – C

III. Answer **any two** of the following :

(2×10=20)

- 1) Describe the external features of Amphioxus.
- 2) What is Pisciculture ? Add a note on Inland fisheries.
- 3) With a neat labelled diagram, describe the venous system of Frog.
- 4) Explain terrestrial adaptations in Reptiles.