



K18U 1531

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)

Examination, November 2018

(2014 Admn. Onwards)

CORE COURSE IN ZOOLOGY

5 B09 ZLG : Comparative Animal Physiology and Human Physiology

Time : 3 Hours

Max. Marks: 40

Answer any one of the following :

(1×8=8)

1. Explain the process of blood coagulation.
2. Give a brief account on various types of excretory organs in animals.

Answer any one of the following :

(1×8=8)

3. What is synapse ? Explain the chemical and electrical type of synaptic transmission.
4. Explain thermoregulations in animals.

Answer any two of the following :

(2×4=8)

5. Explain the biochemical events occurring in muscle contraction.
6. Give an account on gastrointestinal hormones.
7. Briefly explain the process of transport of oxygen from lungs to the tissues.

Answer any six of the following :

(6×2=12)

8. Smoking and its physiological effects.
9. Conduction of heart beat.

P.T.O.

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10. Compound stomach.
11. Urea cycle.
12. Osmoregulation in fresh water animals.
13. Electric organs.
14. Giant neurons in Cephalopods.
15. Cardiac muscle.

Answer the following questions in a word or sentence :

(4×1=4)

16. Give an example of a neurotransmitter.
17. The respiratory pigment containing copper is
18. What is tidal volume ?
19. Give an example of an anticoagulant present in Leech.

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**Core Course in Zoology**  
**5B09 ZLG : COMPARATIVE ANIMAL PHYSIOLOGY AND**  
**HUMAN PHYSIOLOGY**

Time : 3 Hours

Max. Marks : 40

I. Answer any one of the following. (1×8=8)

- 1) Explain the process of urine formation and mention abnormal constituents of urine.
- 2) Explain the mechanism of transmission of nerve impulse.

II. Answer any one of the following. (1×8=8)

- 3) Explain the structure of human eye and mention the mechanism of vision.
- 4) Describe the process of Physiology of muscle contraction.

III. Answer any two of the following. (2×4=8)

- 5) Explain chemical synapse.
- 6) Make a note on conducting system of heart.
- 7) Describe on gastro intestinal hormones.

IV. Answer any six of the following. (6×2=12)

- 8) Hemoglobin
- 9) Dietary fibers
- 10) Blood platelets

P.T.O.



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11) Ureotelism

12) Cochlea

13) Bioluminescence

14) Aestivation

15) Carbon monoxide poisoning.

V. Answer the following questions in a word or in a sentence.

(1×4=4)

16) Giant neurons are found in

17) The primary nitrogenous excretory materials in mammals is

18) The enzyme trypsin is produced by

19) The respiratory pigment present in Arthropods is