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K19U 2284

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS- Reg./Sup./Imp.) Examination,  
November-2019  
(2014 Admn. Onwards)  
Core Course in Zoology  
5B 09 ZLG: COMPARATIVE ANIMAL PHYSIOLOGY AND HUMAN  
PHYSIOLOGY

Time : 3 hrs

Max. Marks : 40

- I. Answer any **one** of the following (1×8=8)
- 1) Explain the process of transmission of nerve impulse.
  - 2) Give a description on the comparative account of heart in different groups of animals.
- ii. Answer any **one** of the following (1×8=8)
- 3) Briefly explain the transport of Oxygen and Carbon dioxide in the blood.
  - 4) What is osmoregulation? Explain the osmoregulatory mechanism in terrestrial, freshwater and marine animals.
- iii. Answer any **two** of the following (2×4=8)
- 5) Explain the physiology of vision in man
  - 6) Describe the process of urine formation
  - 7) Briefly explain salivary glands and gastric glands.
- IV. Answer any **six** of the following (6×2=12)
- 8) Hormonal control of kidney function.
  - 9) Synapse
  - 10) Aestivation and hibernation

P.T.O.



- 11) Sliding Filament theory in muscle contraction.
- 12) White Blood Cells.
- 13) Importance of dietary fibre.
- 14) Muscle fatigue and Rigor mortis
- 15) Bioluminescence

V. Answer the following questions in a word or sentence

(4×1=4)

- 16) Excretory organ in Prawn is
  - 17) What is residual volume?
  - 18) Give an example of an ammonotelic animal.
  - 19) Giant neurons are present in
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