K20U 1562

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.) Examination, November 2020
(2014 Admn. Onwards)
CORE COURSE IN ZOOLOGY
5B09 ZLG : Comparative Animal Physiology and Human Physiology

Time : 3 Hours Max. Marks : 40

I. Answer **any one**. **(1×8=8)**

1) Explain the mechanism of transport of respiratory gases.

2) Describe the molecular structure of striated muscles and describe the mechanism of muscle contraction.

II. Answer **any one**. **(1×8=8)**

3) Describe the structure of Human Nephron and explain the mechanism of urine formation.

4) Explain the different respiratory pigments in animals.

III. Answer **any two**. **(2×4=8)**

5) Describe the structure of a chemical synapse and explain the synaptic transmission.

6) What is counter current mechanism ? Explain.

7) Describe the structure of human heart with the help of a labeled diagram.

IV. Answer **any six**. **(6×2=12)**

8) Describe the Oxygen-hemoglobin dissociation curve.

9) Mention the gastro-intestinal hormones and their function.

10) What is decompression sickness ?

P.T.O.

11) Describe the compatibility of blood transfusion.

12) Mention any two cardio-vascular problems in Man.

13) Describe the mechanism of glomerular ultrafiltration.

14) Describe the organization of myosin filaments.

15) Briefly explain the sodium-potassium pump and its role in the transmission of electrical impulses.

V. Answer the following. **(4×1=4)**

16) The copper containing respiratory pigment is

17) The universal donor blood group is

18) Xerophthalmia is caused due to the deficiency of

19) _____ is considered as the pace maker of heart.

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