



K20U 1310

Reg. No. :

Name :

III Semester B.Sc. Degree (CBCSS-Sup./Imp.) Examination, November 2020
(2014 – '18 Admns.)

COMPLEMENTARY COURSE IN PHYSIOLOGY

3C 03 PLY : Human Physiology – I

Time : 3 Hours

Total Marks : 32

I. Answer **any one**.

1) What is oxygen-hemoglobin dissociation curve ? Explain the method of oxygen transport through blood.

2) Explain the structure of nephron and give a note on the mechanism of urine formation by kidney.

(1×6=6)

II. Answer **any one**.

3) Give an account of structure of inner ear. Explain the physiology of hearing and balancing.

4) Explain the structure of human heart with the help of a diagram and describe the cardiac cycle.

(1×6=6)

III. Answer **any four**.

5) Write a note on the gastro intestinal hormones.

6) Briefly explain the regulation of respiration.

7) Explain the role of photoreceptor cells in vision.

8) Explain the mechanism of blood clotting.

9) Explain the structure and function of neuronal synapse.

10) Briefly explain the process of CO₂ transport through blood.

(4×3=12)

IV. Answer **any six** of the following.

11) Acclimatisation.

12) Ischaemic heart disease.

13) Neurotransmitters ? Give example.

14) Cell mediated immunity.

15) Homeostasis.

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- 16) Asphyxia.
- 17) Formation of carboxy haemoglobin.
- 18) Diabetes insipidus.
- 19) HbF.

(6×1=6)

V. Answer the following.

20) Match the following :

- | | |
|---------------------|--------------------|
| a) Salivary amylase | i) Lipids |
| b) Renin | ii) Proteins |
| c) Pepsin | iii) Milk proteins |
| d) Steapsin | iv) Starch |

- 21) a) Respiratory centre is present in
- b) Pacemaker of heart is situated in the wall of
- c) Renin is produced by
- d) Scurvy is due to the deficiency of

(2×1=2)