



K24U 3457

Reg. No. :

Name :

**III Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2024**

(2019 to 2023 Admissions)

COMPLEMENTARY ELECTIVE COURSE IN PHYSIOLOGY

3C03PLY: Human Physiology – I

Time : 3 Hours

Max. Marks : 32

Instruction : Give illustrations and figures **wherever** necessary.

I. Essay questions (**Each** question carries **6** marks) Answer **any two**. **(2×6=12)**

- 1) Describe structure of nephron and add note on mechanism of urine formation.
- 2) Describe constituents of blood and mechanism of blood coagulation in human beings.
- 3) Write an account on the mechanism of Oxygen and Carbon dioxide transport during respiration in man.
- 4) Comment on humoral and cell mediated immunity.

II. Short essay (**Each** question carries **3** marks) Answer **any two**. **(2×3=6)**

- 5) Give a brief note on gastro intestinal hormones.
- 6) Explain the structure of human heart and comment on cardiac cycle.
- 7) Describe structure of inner ear with physiology of hearing and balance.

III. Short answer questions (**Each** question carries **2** marks) Answer **any six**. **(6×2=12)**

- 8) What is ASD and VSD ?
- 9) What are the major digestive glands ?
- 10) What are the Neurotransmitters ? Give examples.
- 11) What is renal hypertension ?
- 12) What is ECG ? Mention the clinical significance.
- 13) What is coronary thrombosis ?
- 14) Write notes on physiology of vision.
- 15) Write note on renal failure.

P.T.O.

IV. Multiple choice questions (**Each** question carries **0.5** mark) Answer **all**. (**4** \times **0.5=2**)

- 16) The process of visual adaptation refers to
- a) Dark adaptation
 - b) Light adaptation
 - c) Dark and light adaptation
 - d) Dark light and colour adaptation
- 17) Haldane effect is operative in
- a) Lungs
 - b) Tissues
 - c) Muscles
 - d) Nerves
- 18) Erythrocytes are produced in
- a) Spleen
 - b) Bone marrow
 - c) Liver
 - d) Kidney
- 19) _____ is the pace maker of human heart.
- a) SA node
 - b) Purkinje fibers
 - c) AV node
 - d) Bundle of His

