



K21U 2112

Reg. No. : .....

Name : .....

III Semester B.Sc. Degree (CBCSS – Sup./Imp.)  
Examination, November 2021  
(2015 – '18 Admissions)  
**COMPLEMENTARY COURSE IN PHYSIOLOGY**  
**3C 03 PLY : Human Physiology – I**

Time : 3 Hours

Max. Marks : 32

I. Answer **any one**.

(1×6=6)

- 1) Explain the physiology of gaseous exchange between lungs and tissues.
- 2) Explain the structure of nephron and the mechanism of urine formation.

II. Answer **any one**.

(1×6=6)

- 3) Describe the method of impulse transmission along nerve fibre.
- 4) Explain the composition of blood. What are major functions of the constituents ?

III. Answer **any four**.

(4×3=12)

- 5) What are the adaptations to high altitude ?
- 6) Write a note on Vitamin deficiency disorders.
- 7) Explain the oxygen – haemoglobin dissociation curve.
- 8) Describe the mechanism of blood clotting.
- 9) With the help of a diagram, explain the structure of neuronal synapse.
- 10) Briefly explain the process of dialysis.

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

(6×1=6)

- 11) Balanced diet.
- 12) Asphyxia.
- 13) Angina pectoris.

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- 14) Neurotransmitters. Give example.
- 15) Humoral immunity.
- 16) Pyrexia.
- 17) Malpighian capsule.
- 18) Three layers of eye.
- 19) Sickle cell haemoglobin.

V. Answer the following.

**(2×1=2)**

20) Match the following :

- |                |                       |
|----------------|-----------------------|
| a. Basophil    | a. Megakaryoblasts    |
| b. Neutrophils | b. Allergic reactions |
| c. Platelets   | c. Polycythemia       |
| d. RBC         | d. Phagocytosis       |

- 21) a) FAD is a coenzyme derived from \_\_\_\_\_.
- b) Haemoglobin shows maximum affinity with \_\_\_\_\_.
- c) GABA is a \_\_\_\_\_.
- d) The inflammatory disorder of kidney is called \_\_\_\_\_.
- \_\_\_\_\_