

**GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY**

General instructions:

- All questions are compulsory.
- Explain with diagrams where required.
- Please write the correct paper code.
- Be to the point.
- Answer Section- A and Section – B in separate answer books.

**SECTION - A**

**GENERAL HUMAN PHYSIOLOGY**

**PAPER CODE: 2411105002**

**1 LONG ESSAY QUESTIONS**

**1 X 10 = 10 Marks**

Define Glomerular Filtration Rate (GFR). What is the normal value? Discuss the various factors influencing GFR.

**2 WRITE NOTES ON**

**3 X 5 = 15 Marks**

- a) Composition and functions of Gastric Juice.
- b) Conducting system of the Heart.
- c) Functions of Glucocorticoids. Add a note on Cushing's syndrome.

**3 SHORT NOTES**

**5 x 2 = 10 Marks**

- a) Functions of Thalamus.
- b) Excitation contraction coupling.
- c) What is meant by Proprioception? What are the receptors for Proprioception?
- d) Transport of Carbon dioxide in the body.
- e) Stages of Deglutition.

**SECTION - B**

**BIOCHEMISTRY**

**PAPER CODE: 2411105003**

**1 LONG ESSAY QUESTIONS**

**1 X 10 = 10 Marks**

- a) Describe in detail the reactions of urea synthesis in the body. Mention the normal level of blood urea.

**2 WRITE NOTES ON**

**3 X 5 = 15 Marks**

- a) Biologically important compounds derived from cholesterol.
- b) Role of trace elements in oral health.
- c) Define Glycolysis. Enumerate how Glucose is completely oxidized.

**3 SHORT NOTES**

**5 x 2 = 10 Marks**

- a) Structure & functions of mRNA.
- b) Explain suicide inhibition of Enzyme with an example.
- c) Brief about a) Refsum's disease b) Galactosemia.
- d) Sulphur containing amino acids.
- e) Structural organization of proteins.

