

Duration 3 hours

N.B.:

- (1) Question number 1 is compulsory.
- (2) Attempt any three questions from the remaining five questions.
- (3) Figures to the right indicate full marks.
- (4) Draw suitable graphs/diagrams wherever necessary.

Q.1 Solve **any four** questions out of five questions.

- a. Explain Eithoven's triangle and Eithoven's theorem. [05]
- b. Explain the structure of an eye. [05]
- c. Explain the structure of neuron. [05]
- d. Write a note on blood groups. [05]
- e. State the accessory organs of the digestive system and their functions. [05]

- Q2. a. Explain the process of urine formation and mention the composition of urine. [10]
Q2. b. Explain the structure and functions of the stomach. [10]

- Q.3.a List all endocrine glands, their hormones and the functions of those hormones. [10]
Q3.b. Explain the structure of an ear. [10]

- Q.4 a Explain the different organs in the male reproductive system and state their functions. [10]
Q4.b. Explain the structure of respiratory system and functions of each organ. [10]

- Q.5 a. Explain the conduction system of the heart. [10]
Q5.b. Explain the lobes of cerebrum. [10]

- Q.6. Write short notes on **any four** of the following: [20]
a. Reflex Arc
b. Homeostasis and the positive and negative feedback mechanism
c. Functions of CSF (Cerebro Spinal Fluid)
d. Structure of a cell and functions of its organelles
e. Exchange of gases in lungs
