

# CBCS SCHEME

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18BT643

**Sixth Semester B.E. Degree Examination, June/July 2023**

## **Human Physiology**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions, choosing ONE full question from each module.**

### Module-1

- 1 a. Differentiate between red and white muscle fibers. (10 Marks)  
b. Illustrate the mechanism of contraction and relaxation of muscle. (10 Marks)

**OR**

- 2 a. Differentiate between Bone and Cartilage. (10 Marks)  
b. Explain the properties of epithelial tissue and connective tissue. (10 Marks)

### Module-2

- 3 a. Explain the physiology of digestion. (10 Marks)  
b. With neat labelled diagram, explain the structure of Nephron? Add a note on its function. (10 Marks)

**OR**

- 4 a. Outline the mechanism of Urine formation. (10 Marks)  
b. Summarize on digestive glands and the role of enzyme produced by them. (10 Marks)

### Module-3

- 5 a. Explain the transport of respiratory gases in blood. (10 Marks)  
b. Describe any two cardiovascular disorders. (10 Marks)

**OR**

- 6 a. Construct the steps involved in clotting of blood. (10 Marks)  
b. Explain the mechanism of breathing in human. (10 Marks)

### Module-4

- 7 a. Nerve impulse conducts throughout the body. Explain the process of conduction. (10 Marks)  
b. Explain CNS. (10 Marks)

**OR**

- 8 a. Distinguish between CNS and PNS. (10 Marks)  
b. Sketch and explain the structure of Neuron. Add a note on classification of Neuron based on shape and function. (10 Marks)

### Module-5

- 9 a. Pancreas as endocrine system. Justify. (10 Marks)  
b. Explain the role of hormones released by anterior pituitary gland. (10 Marks)

**OR**

- 10 a. Explain the role of gonad hormones. (10 Marks)  
b. Discuss the chemistry, role and disorder relate to thyroid gland hormones. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.