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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)