

2056  
B. Voc. (Medical Lab Technology) FYUP  
Second Semester  
MLT-201: Basics of Physiology

Time allowed: 3 Hours

Max. Marks: 40

*NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.*

*x-x-x*

I. Attempt the following:-

- a) What are the functions of spleen?
- b) Name the fat-soluble vitamins.
- c) What is Bohr effect?
- d) Write a brief note on synapse. (4x2)

**UNIT - I**

- II. What is digestion? Discuss the gastric and intestinal phase of digestion. (8)
- III. a) Draw a well labelled diagram of V.S. Skin.  
b) Explain the sources, daily requirement and deficiency diseases of vitamin C. (3,5)

**UNIT - II**

- IV. Describe the role of kidney in excretion and osmoregulation in detail. (8)
- V. Write a brief note on following:
  - a) Cardiac cycle
  - b) Lymph and its functions (4,4)

**UNIT - III**

- VI. What is fertilisation? Explain the process in detail. (8)
- VII. a) Discuss transport of Carbon dioxide in the blood.  
b) Explain the electrical events in muscle contraction. (3,5)

**UNIT - IV**

- VIII. Explain the origin and propagation of nerve impulse along the axon. (8)
- IX. Describe the physiological functions and disorders of Hypothalamus and Adrenal gland. (4,4)

*x-x-x*