

2054  
B. Voc. (Medical Lab Technology)  
Second Semester  
BMLT-203: Basic of Physiology

Time allowed: 3 Hours

Max. Marks: 40

*NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.*

x-x-x

I. Write short notes on the following:

- a) Sarcomere
- b) Corpus luteum
- c) Blood pressure
- d) Glomerular filtration (4x2)

UNIT - I

- II. Discuss digestion of food in alimentary canal along with its hormonal Regulation. (8)
- III. a) What is nutrition? Describe macronutrients and micronutrients.  
b) Describe the structure and function of skin. (2x4)

UNIT - II

- IV. a) Write about various types of body fluids along with their functions.  
b) What is ECG? Explain it in relation to cardiac cycle. (2x4)
- V. a) What is heart beat? Describe its origin and regulation.  
b) What is Counter current mechanism? Describe its role in urine formation. (2x4)

UNIT - III

- VI. a) Write a detailed note on Oxygen transport in blood.  
b) Explain Oogenesis in details. (2x4)
- VII. Discuss ultrastructure & physiological basis of skeletal muscle contraction. (8)

UNIT - IV

- VIII. a) Describe propagation of impulse along the axon and myoneural junction.  
b) Discuss structure of a neuron. (2x4)
- IX. a) Discuss various hormones involved in kidney functioning.  
b) Describe functions of pituitary gland. (2x4)

x-x-x