

2055
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. Explain the following:-

- a) Name the glands present in human skin?
- b) What is the structural unit of Kidney?
- c) What is the function of Sertoli cells?
- d) Differentiate blood & Lymph?
- e) Define Cardiac output.
- f) What is myoneural junction?
- g) What is chloride shift?
- h) Name the gland of emergency

(8x1)

UNIT - I

- II. Define vitamins. Write an account on the different types of vitamins and their functions. (8)
- III. (a) Discuss in brief the basic steps of physiology of digestion of food.
(b) Describe the Structure of Skin of Human. (4,4)

UNIT - II

- IV. Write note on the following:-
 - (a) Origin & regulation of Heart beat.
 - (b) Functions of the blood. (4,4)
- V. Explain the mechanism of Urine formation in Kidney. (8)

UNIT- III

- VI. a) Explain the mechanism of transport of Carbon-dioxide in blood.
b) Describe the Sliding filament theory of muscle contraction. (4,4)

P.T.O.

(2)

- VII. What is gametogenesis? Explain the process of gametogenesis in human male. Write its importance. (8)

UNIT- IV

- VIII. a) Explain the origin and propagation of nerve impulse at the synapse.
b) Brief account on the hormones of pancreas. (4,4)
- IX. Describe the structure of thyroid gland and discuss the functions of various hormones secreted by thyroid gland. (8)

x-x-x