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B.D.S. 1st Professional Examination

General Human Physiology & Biochemistry

Note:- All questions are to be attempted. Reply your answers with suitable diagrams.

Time: 3 Hrs.

MM: 50.

Part - A

- Q.1. a) Explain structure and functions of Red Blood Cells 5 X 2
b) Salivary Amylase
- Q.2. a) What is Radial Pulse ? Write various points for its examination. 5 X 2
b) Explain effect of Haemorrhage on Blood Pressure
- Q.3. a) What is parathormone ? Write its role in regulation of blood calcium level. 5 X 2
b) Write a note on Nephron.

Part - B

- Q.1. What should be the ideal ratio of Calcium and Phosphorous in diet and discuss the functions, daily requirement and absorption of Calcium. (5 X 2)
- Q.2. Describe Urea Cycle & Discuss clinical significance of Blood Urea level. (5 X 2)
- Q.3. Write short notes on each of the following: (3 X 2)

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Part- A

Time: 3 hrs.

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Note: All questions are to be attempted. Reply your answers with suitable diagrams.

- Q.1. a) Name the various types of White blood cells. Draw diagram and write their functions. (6)
- b) Describe briefly various functions of salivary secretion. (4)
- Q.2. a) Define cardiac output. Explain various factors controlling it. (6)
- b) Write down various functions of Kidneys in our body. (4)
- Q.3. a) Explain mechanism of Oxygen carriage in our body. (6)
- b) What are sensory and Motor tracts. Explain their differences. (4)

Part- B

- Q.1. Discuss the following:- (2.5 X 4)
- a) Diagnostic importance of enzymes.
- b) Role of Calcium in Bone & Teeth formation.
- c) Lipoproteins and their diagnostic applications.
- d) lac operon Hypothesis.
2. Write short notes on:- (2.5 X 4)
- a) Significance of HMP shunt.
- b) Vitamin-D.
- c) Secondary structure of proteins.
- d) Polysaccharides.

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