

(2129)

Roll No.

BDS I Prof.

O-5136

B. D. S. Examination, 2009

Paper-II

General Human Physiology & Biochemistry

(BDS-02)

(Old Course)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt *all* questions. Illustrate your answers with suitable diagrams. Use separate copy for Part A & part B.

Part-A

(General Human Physiology) [Marks :25

1. Draw a labelled diagram of myoneural junction. Write briefly about contractile proteins. 4

(2)

2. Describe Erythropoiesis. What is the normal life span and functions of Red blood cells? 4

3. Enumerate posterior pituitary hormones and describe their functions. 4

4. Differentiate between: 1.5x4=6

- (a) ν^{ν} Bohr's effect and Holdane's effect
- (b) Cortical and juxamedullary nephrons
- (c) First and second heart sounds ν^{ν}
- (d) Gastrin and secretin.

5. Write short notes on: 7

- (a) Composition and functions of CSF
- (b) Sertoli cell
- (c) Myopia.

Part-B

(Biochemistry) [Marks: 25]

1. Define carbohydrates and classify. Give one example of each. 3

O-5136

(3)

2. Describe the secondary and tertiary structures of proteins. 4

3. Define β -oxidation and describe the oxidation of fatty acids. 5

4. Describe digestion of proteins in gastrointestinal tract. 4

5. Write short notes on: 6

- (a) Cholesterol
- (b) Allosteric enzymes
- (c) Essential fatty acids.

6. Discuss the functions of calcium in the body. 3

O-5136-3-120