

Roll No. 5092631

Code#201112

Student Name: B.D.S. I Prof.

S. No. 1

5136(N)

B. D. S. Examination, Nov. 2012

Human Physiology & Biochemistry

(BDS-02)

Time: Three Hours] [Maximum Marks: 35+5

- Note: (i) Attempt all questions.
(ii) Illustrate your answers with suitable diagram wherever necessary. Use separate copy for Part-A and Part-B.

- Part-A : Human Physiology [Marks : 35
1. Explain with the help of flow chart the extrinsic and intrinsic pathway of coagulation. 6

2. Write briefly at out the following: $5 \times 2 = 10$
 (a) Short-term regulation of blood pressure
 (b) Digestion and absorption of fats.

Ques. Answer on the following:

$$2 \frac{1}{2} \times 4 = 10$$

5.

Write short notes on the following:

30.07.18

(a) Invagincular apparatus

(b) Excitation-contraction coupling

(c) Permanent methods of contraception

(d) Surfactant.

4. Draw labelled diagram of the following: 3x3=9

(a) Oxyhaemoglobin dissociation curve

(b) Photoreceptors or Retina

(c) Mature sperm.

Part-B : Biochemistry [Marks : 35]

What is the role of cyclic AMP in glycogenolysis? 5

2. Explain the primary, secondary and tertiary structure of protein. What are the forces which stabilized them? 4

3. Describe the sources, daily requirement, absorption and deficiency manifestation of calcium. 4

4. What is oxidative deamination? 4

(20812)
B.D.S.-I Prof.

Roll No. ०९९११९४३.

5136(N)

B. D. S. Examination, August 2012

HUMAN PHYSIOLOGY & BIOCHEMISTRY (BDS-02N)

LIBRARY
i3 Dental College Hospital & Research Centre
47, Knowledge Park-III, Greater Noida

Time : Three Hours / Maximum Marks : 35+35

Note : (i) Attempt all questions.

- (ii) Illustrate your answers with suitable diagram wherever necessary. Use separate copy for Part-A and Part-B.*

Part-A

(Human Physiology)

1. Enumerate the hormones secreted by adrenal cortex. Describe the functions of glucocorticoids. 10
2. Write briefly about :
 - (a) Refractive errors
 - (b) Erythropoiesis and the factors affecting it.5×2=10

(2)

3. Write short notes on the following. $2\frac{1}{2} \times 4 = 10$
- Motor unit
 - Functions of saliva
 - Glomerular filtration rate and factors affecting it
 - VITAL capacity.
4. Draw labelled diagram of the following : $2\frac{1}{2} \times 2 = 5$
- Neuromuscular junctions
 - Agranulocytes.

Part-B

(Bio-chemistry)

1. Describe how the calcium levels are regulated in blood? What is the role of calcium in tooth formation?
2. What are the enzyme inhibitors? Classify them and explain their function.
3. What is Gene? What is Genetic code? How protein synthesis takes place in human body?

(3)

4. Draw TCA cycle. What are the normal values of blood glucose? How is blood sugar level regulated in our body? 4
5. Write short notes on the following : $3 \times 6 = 18$

- Phenylketonuria
- Essential fatty acids

- Inhibitors and uncouplers of oxidation phosphorylation
- Hyperthyroidism
- Collagen

- DNA.

LIBRARY

U.S Dental College Hospital & Research Centre
47, Knowledge Park-III, Greater Noida