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Roll No.

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ITS Dental College Hospital & Research Centre
BDS-1st Year
47, Knowledge Park-III, Greater Noida

5136

B. D. S. Examination, Jan. 2002

Paper II

General Human Physiology & Biochemistry

(BDS-02)

Time: Three Hours (Maximum Marks: 25+25)

Note: Attempt all the questions of Section A and five questions from Section B. Illustrate your answers with suitable diagrams.

Section A

(General Human Physiology)

1. (a) Describe the electron-microscopic structure of cell membrane.
- (b) Write a note on active transport. 5
2. (a) Enumerate the enzymes secreted in saliva and describe their functions.
- (b) Discuss the pharyngeal stage of swallowing. 5

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(1) Name the normal heart sounds of the heart. How these are produced? 5

(2) Describe Renin-angiotensin system. 5

Write notes on any two of the following :

(a) Vitamin D

(b) Cretinism

(c) Growth hormone.

(a) Compare the structure and functions of skeletal and smooth muscle. 5

(b) Discuss the action potential in the nerve. 5

Section B

(Biochemistry)

How are enzymes important in clinical diagnosis? Illustrate with examples. 5

Write short notes on any three of the following :

(a) Glucose tolerance test

(b) Ketone bodies

(c) Galactosemia

(d) Gout. 5

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3. Why it is necessary to remove ammonia from the body? How it is excreted? Briefly explain the cycle. 5

4. Describe the role of different buffers in the body and how they maintain the pH of the blood. 5

Describe the significance of citric acid cycle in carbohydrate metabolism. 5

Describe the biochemical functions of vitamin C. 5

7. Describe briefly various inborn errors of amino acid metabolism. 5

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B. D. S. Examination, Aug. 2002

Paper II

General Human Physiology & Biochemistry

(BDS-02)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions. Illustrate your answers
with suitable diagrams.

Section A

(General Human Physiology)

1. Describe the pathway for pain sensation. 5
2. Describe the protein digestion in gastrointestinal tract. 5

(2)

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Describe short-term regulation of blood pressure. 5

Describe central chemo-regulation of respiration. 5

Write short notes on the following : 5

(a) Rh blood group

(b) GFR

(c) Cretinism

(d) Ovulation

Section B

(Biochemistry)

1. Describe briefly various steps of protein biosynthesis. 7

2. (a) Draw complete electron transport chain showing sites of action of various inhibitors. 5

(3)

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(b) Describe the reactions involved in the β -oxidation of palmitic acid. 5

3. Write short notes on the following :

(a) Liver function test 3

(b) Immunoglobulins 3

(c) Iodine deficiency disorders. 2

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