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B.D.S. Ist Professional **HB Dental College Hospital & Research Centre**
47, Knowledge Park-III, Greater Noida

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B.D.S. Examination, April-2004

PAPER - II

General Human Physiology & Biochemistry
(BDS-02)

Time : Three Hours]

[Maximum Marks : 25

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

Section - A

(General Human Physiology)

1. Discuss the stages of Erythropoiesis. 4
2. Describe phases of gastric juice secretion. 4
3. Discuss the different stages of circulatory shock. 5

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2. Describe the regulation of cardiac output. 5
3. Describe chemoregulation of respiration. 5
4. (a) Draw a diagram of pyramidal tract. 3
(b) Draw a diagram of organ of Corti. 2
5. Describe the functions of insulin. 5

Section B
(Biochemistry)

1. Describe the following :

- (i) Beta oxidation of fatty acids 3
- (ii) Glycogen storage diseases. 2

2. Write short notes on the following :

- (i) Metabolic role of calcium $2\frac{1}{2}$
- (ii) Fluorine or Vitamin D. $2\frac{1}{2}$

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3. State about the following :

- (i) Diagnostic significance of isoenzymes $2\frac{1}{2}$
- (ii) Protein-calorie malnutrition. $2\frac{1}{2}$

4. Write short notes on any two : $2\frac{1}{2}$ each

- (i) Aromatic amino acids
- (ii) ~~Electron~~ Electron transport chain
- (iii) ~~Liver~~ Liver function test.

5. Describe the following :

- (i) Isoelectric pH $2\frac{1}{2}$
- (ii) Nucleotides and nucleosides. $2\frac{1}{2}$

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B. D. S. Examination, Sept. 2004

Paper II

General Human Physiology & Biochemistry

(BDS-02)

Time : Three Hours] [Maximum Marks : 25+25

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

Section A

(General Human Physiology)

1. (a) Describe the functions of endoplasmic reticulum. 3
- (b) Draw a flow chart of intrinsic mechanism of clotting. 2

2. Define Cardiac Output. What are the factors which affect cardiac output? 5

3. Differentiate between :

- (a) Myopia and Hypermetropia
- (b) Myelinated and unmyelinated nerve fibre.

Section - B
(Bio-Chemistry)

1. Define isozymes giving examples. Describe relevance of isozymes in the diagnosis of diseases.

2. Describe Hexose-monophosphate shunt and its metabolic significances.

3. Enumerate the biochemical changes in the blood and urine of a patient suffering with jaundice.

4. Discuss in brief :

- (a) Inhibitors of protein biosynthesis.
- (b) Role of calcium in metabolism.
- (c) Van Giecck's disease.

Write short notes on the following :

- (i) Therapeutic uses of Vit B₁₂.
- (ii) Essential fatty acids.
- (iii) Fluoride.