

P (Printed Pages 3)

Roll No.

(21110)

B.D.S. I Prof.

5136 (N)

B.D.S. Examination Nov. 2010

Human Physiology & Biochemistry

Paper - II

(BDS - 02)

(New)

Time : Three Hours / [Maximum Marks : 70

Note : 1. Attempt all questions.

2. Illustrate your answers with suitable diagram
wherever necessary.

Part 'A' (Physiology)

1. Draw a labelled diagram of Nephron. Describe the
structure and function of Juxta Glomerular Apparatus.

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P.T.O.

EXTRACT

MS Dental College, Mangalore
47 Khandappa Road, Mangalore

2. Define Cardiac output and its normal Values in males

and females. What are the factors which affect

Cardiac output? *CVS*

5

3. Differentiate between :

2.5x4=10

(a) Humoral and Cellular Immunity

(b) Myopia and Hypermetropia

(c) Hepatic and Gall Bladder Bile

(d) Pituitary and Thyroid Dwarf

4. Write briefly about :

4x2=8

(a) Oxy Haemoglobin dissociation curve

(b) Menstrual cycle

5. Write short notes on any three :

2x3=6

(a) Night blindness

(b) Functions of skin

(c) Referred pain

(d) Aldosterone

Part - 'B' (Biochemistry)

1. What is the major catabolic pathway of glucose under

anaerobic conditions? Mention the steps in the

pathway and indicate the key enzymes.

5

2. What is the composition of Saliva?

4

3. Explain the steps of β -oxidation of Palmitic acid, giving energetics.

4

4. What is the differences between. Rickets and Osteomalacia?

4

5. Write short notes on :

3x6=18

(a) How iron is absorbed in the body?

(b) Explain the oxygen dissociation curve

(c) Fluorosis

(d) Factor's influencing calcium absorption.

(e) Describe sources, functions, requirement and deficiency manifestation of Vitamin-C.

(f) Describe the hormones of anterior pituitary glands.

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