# I.T.S DENTAL COLLEGE, HOSPITAL & RESEARCH CENTRE

47, KNOWLEDGE PARK – III, GREATER NOIDA

(3)

**1st yr. B.D.S. (2007 Batch)**

**2nd INTERNAL ASSESSMENT EXAMINATION**

**PHYSIOLOGY & BIO CHEMISTRY**

Date : 7/5/08

Marks : 50
Time : 3 hours

**NOTE:-**
1. Attempt all questions.
2. Draw neat and well labeled diagrams.
3. Answer Part I and Part II in separate answer sheets.

**M.M. 25**

## PART- I
## PHYSIOLOGY

Q. 1 Discuss the regulation of blood pressure. (1x7) = 7

Q. 2 Write briefly on: (3X2) = 6
(a) Haemoglobin Oxygen dissociation curve.
(b) $FEV_1$ in normal, obstructive and restrictive diseases.

Q. 3 Write short notes:-
(a) Counter Current mechanism.
(b) Neuromuscular junction.
(c) Hypothyroidism in children and adults.
(d) Effects of hormones regulating serum calcium level (4x3)= 12

## PART- II
## BIO CHEMISTRY

**M.M. 25**

Q. 1 Define Oxidative phosphorylation. Name the components of Electron Transport Chain and explain it. (6)

Q. 2 Name the inhibitors of Electron Transport Chain and indicate the site at which they inhibit. (4)

Q. 3 Describe the role of calcium in metabolism. (3)

Q. 4 Write short notes :- (6x2) = (12)
(a) Uses of Vitamin $B_{12}$ and folic acid.
(b) Essential fatty acid in diet.
(c) Feed back inhibition.
(d) Uncoupler of oxidative phosphorylation.
(e) Isoenzyme.
(f) Role of Vitamin A.

# I.T.S Dental College, Hospital & Research Centre

47, Knowledge Park – III, Greater Noida

(5)

**3rd Internal Assessment Examination (1st yr B.D.S)** **21st August 2008**

## Department of Physiology

**Max Marks – 25**

Note :- (1) Attempt All Question
(2) Draw Neat & Well Labelled Diagram Wherever Necessary

Q.1. Describe the composition, functions and regulations of Pancreatic Juice. (5)

Q.2. (a) Discuss hypothyroidism in the Young and in the adult. (5)

(b) Food intake and its regulation. (2)

Q.3. Write short notes on :-

a) Parkinsonism ($2^{1/2}$)
b) Heart Sounds ($2^{1/2}$)
c) Chemoreceptors ($2^{1/2}$)
d) Juxtaglomerular Apparatus ($2^{1/2}$)
e) Phases of Menstrual Cycle (3)

## Department of Biochemistry

**Max Marks – 25**

Q.1. a) Define Km of an enzyme. What is its significance? (4)
b) What are Isoenzymes and explain their clinical importance. (4)

Q.2. (a) Differentiate between

(i) Glucose & Sucrose. (2)
(ii) Secondary and Tertiary structure of Protein. (2)

(b) Classify Phospholipids. Explain any two with their clinical importance. (5)

Q.3. Short notes on 4X2=(8 Marks)

a) Vitamin A (2)
b) Flourides (2)
c) Inhibitors of Protein Biosynthesis (2)
d) Gout (2)