

Second Internal Assessment Examination

BDS 1st year (2018 Batch)

Subject : Physiology/ Biochemistry

Time: 3 hrs

9/3/2019

(MM: 70)

- All questions are compulsory.
- Use separate sheet for Part A and Part B
- Draw a well labelled diagram wherever necessary

PART -A (Physiology)

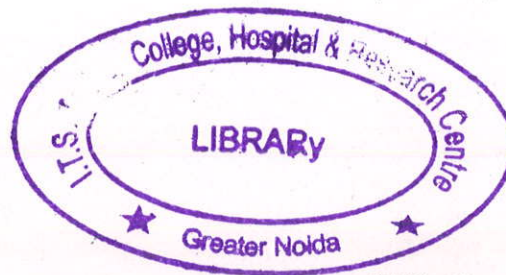
Q.1. Define Cardiac Output and give its normal value. Describe regulation of cardiac output. Discuss its measurements. (1+4+2=7)

Q.2. Write briefly: (4X2=8)

- Chemical regulation of respiration
- Give composition of pancreatic juice and discuss functions of pancreatic enzymes

Q.3. Difference between: (3X4=12)

- Segmentation and Peristalsis
- Red muscle fibres and White muscle fibres
- Hypoxic hypoxia and Anaemic Hypoxia
- Hepatic and Liver bile



Q.4. Draw well labelled diagram of: (2X4=8)

- Myelinated Nerve
- Pressure changes in left ventricle and aorta during cardiac cycle
- Static lung volume and capacities
- O₂ hemoglobin dissociation curve

PART -B (Biochemistry)

Q.1. Enumerate the factors that influence the absorption of Calcium. Give in details how blood calcium levels are regulated? (4x2=8)

Q.2. How Bilirubin is formed in the body? Classify Jaundice & it's evaluation. Describe in brief Liver Function Test. (3x3=9)

Q.3. Write Short Notes on any 04 – (4x4=16)

- ETC – it's Components & inhibitors
- Free radicals & antioxidants
- Diagnostic use of enzymes
- Protein energy malnutrition
- Deficiency manifestations of Vitamin D

Sent Up Examination

BDS 1st year (2018- Batch)

Subject : Physiology/ Biochemistry

INSTRUCTIONS

1. DO NOT USE MOBILE PHONES / CHEATING MATERIALS DURING EXAMS.
2. DO NOT USE WASHROOMS IN FIRST & LAST HALF HOURS OF EXAMINATIONS.
3. MAXIMUM 5 MINUTES WILL BE ALLOWED TO USE THE WASHROOM. ENTRY MUST BE MADE IN TIME IN & OUT SHEET AVAILABLE AT INVIGILATOR DESK.
4. DO NOT WRITE ANYTHING ON THE PAPER EXCEPT YOUR NAME & ROLL NO.
5. PLEASE HANDOVER THE ANSWER SHEETS TO INVIGILATOR BEFORE LEAVING EXAMINATION ROOM.

Time: 3 hrs

NOTE

19/08/2019

(MM: 70)

- All questions are compulsory.
- Use separate sheet for Part A and Part B
- Draw a well labelled diagram wherever necessary

PART -A (Physiology)

(MM: 35)

Q.1. Define Cardiac Output and describe the factors affecting it. Discuss the measurements of cardiac output. (7X1= 7)

Q.2. Write briefly:

(4X2= 8)

- a. Pain and its pathway
- b. Digestion and absorption of Carbohydrates

Q.3. Compare and contrast:

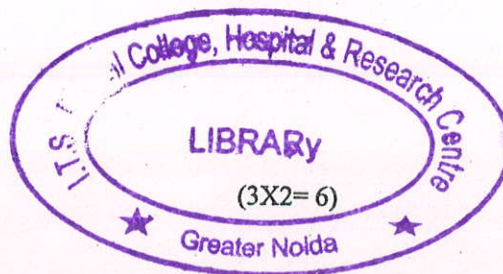
(4X3= 12)

- a. Pulmonary ventilation and Alveolar ventilation
- b. Facilitated diffusion and Secondary active transport
- c. Cretinism and Myxedema
- d. White muscle fibre and Red muscle fibre

Q.4. Write short note on:

(3X2= 6)

- a. Surfactant
- b. Rh Blood Group
- c. Visual Pathway
- d. TmG



PART -B (Biochemistry)

(MM: 35)

Q1. Explain the steps of beta -oxidation of palmitic acid. Give its energetic also. (4+2=6)

Q2. What are iso enzymes? Give their clinical significance in detail. (2+3=5)

Q3. Write Short Notes on: (3X8=24)

- A. Macronutrients Vs Micronutrients
- B. Uncouplers and inhibitors of Electron transport chain.
- C. Post Transcriptional Modification.
- D. Respiratory & Metabolic acidosis.
- E. Hormonal Regulation of Blood sugar.
- F. Coenzyme role of Vitamin B₃.
- G. Transamination reaction
- H. Gout