

I.T.S. Dental College Hospital and research centres

47, Knowledge Park-III, Greater Noida

BDS 1st Year (2020 batch)

First internal assessment examination

Subject : Physiology and Biochemistry

- Attempt all questions
- Use separate sheets for part-A and Part-B
- Draw neat and well labelled diagram wherever required

Part -A

Date: 07/04/2021

- Q.1. Discuss mechanism of contraction of skeletal muscle 7 Marks
- Q.2. Write briefly on 4X2=8 marks
- a) Action potential
 - b) Digestion of fats
- Q.3. Compare and contrast 4X2=8 marks
- a) Primary and secondary active transport
 - b) Red and white muscle fibres
- Q.4. Write short notes 4X3=12 marks
- a) Gastric emptying
 - b) Anticoagulants
 - c) Cell mediated immunity

Part-B

- Q.1. Describe the process of Glycolysis. Explain how many molecules of ATP are formed in Anaerobic conditions & Aerobic conditions. 7+2=9 marks
- Q.2. Explain steps of β -Oxidation of palmitic acid (16 C), giving its energetics 8 marks
- Q.3. What are enzymes? Explain types of enzyme inhibition. 8 marks
- Q.4. Write short notes 2X5=10 Marks
- a) Essential amino acids
 - b) Von-Gierkes disease
 - c) Phospholipids
 - d) Ammonia toxicity
 - e) Coenzymes

