

1st Internal Assessment Examination

BDS 1st year (2021 Batch)

Subject: Physiology/ Biochemistry

21/05/2022(MM: 70)

Time: 3 hrs

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

PART - A (PHYSIOLOGY)

(35 marks)

Q.1. Discuss Neuro-muscular junction

(6)

Q.2. Write short note on:

(4X3= 12)

- a. Length – tension relationship
- b. Action potential
- c. Molecular motors

Q.3. Discuss intrinsic and extrinsic clotting pathway

(5)

Q.4. Write short note on:

(4X3=12)

- a. stages of haemopoiesis
- b. gastric emptying and its regulation
- c. Pancreatic juice

PART – B (Biochemistry)

(35 marks)

Q.5. Describe the reactions of citric acid cycle. How many ATP molecules are generated per molecule of Acetyl CoA entering the cycle. (7)

Q.6. Describe structural organisation of proteins and add short note on any three biologically important peptides. (7)

Q.7. Explain the steps of Beta oxidation of palmitic acid (C16) giving energetics. (6)

Q.8. write short notes

(3 X 5 = 15)

- a) Competitive V/S non-competitive inhibition
- b) Diagnostic significance of iso-enzymes
- c) Ammonia toxicity
- d) Phospholipids
- e) Von-Gierke's disease

