(20222) Roll No. 2060112032

B.D.S. - I Prof.

5136 (N)

B.D.S. Supply. & Main Examination, Feb,-2022

Human Physiology & Biochemistry

(BDS-02(N))

Time : Three Hours] *[Maximum Marks: 35+35=70*

Note : (i) Attempt **all** questions. From Part A & B .

(ii) Illustrate your answers with suitable diagram wherever necessary. Use separate copy for **Part A & Part B.**

Part - A

(Physiology)

1. Define Neuromuscular Junction. Discuss the mechanism of Neuromuscular Transmission. Add a note on Myasthenia Gravis. 1+4+2=7

2. Define Erythropoiesis. Discuss the stages and factors affecting Erythropoiesis. 1+6=7

3. Describe in brief about- 2.5×2=5

(a) Role of Surfactant.

(b) Hormones of thyroid gland

4. Differentiate between following: 2.5×4=10

(a) Action Potential and Graded Potential

(b) Rods and Cones

(c) Simple and fascilitated diffusion

(d) Hypoxic Hypoxia & Anaemic hypoxia

5. Write short notes on any **three** -2×3=6

(a) Functions of Platelets

(b) Gastric Emptying

(c) Functions of Liver

(d) Glomerular filteration Rate

Part - B

Bio-Chemistry

1. Describe the metabolic pathway of glycolysis and its regulation. 10

2. Describe in brief dietary requirement, sources, functions and dificiency symptoms of vitamin B_{12}. 8

3. Write in brief about: 3×3=9

   (a) Basal Metabolic rate

   (b) Gout

   (c) Coenzymes

4. Write short notes on: 2×4=8

   (a) Iron deficiency anemia

   (b) Phenyl ketonuria

   (c) t-RNA

   (d) Atherosclerosis.