

5136 (N)

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

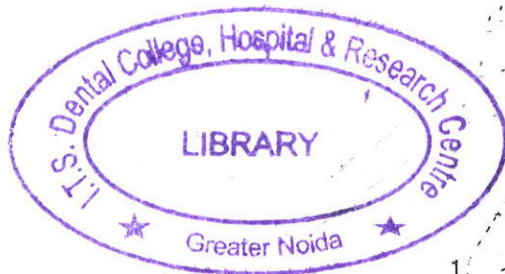
Human Physiology & Biochemistry

(BDS-02(N))

Time : Three Hours] [Maximum Marks: 33+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- $2.5 \times 2 = 5$

(a) Role of Surfactant,

(b) Hormones of thyroid gland

4. Differentiate between following: $2.5 \times 4 = 10$

(a) Action Potential and Graded Potential

(b) Rods and Cones

(c) Simple and facilitated diffusion

(d) Hypoxic Hypoxia & Anaemic hypoxia

5. Write short notes on any three - $2 \times 3 = 6$

(a) Functions of Platelets

(b) Gastric Emptying

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(c) Functions of Liver

(d) Glomerular filtration 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 deficiency symptoms of vitamin B₁₂. 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.

