

Enrolment No.

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BDS
1st YEAR EXAMINATION
GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY, NUTRITION & DIETICS

Time : 3 Hours]

[Max. Marks : 70]

Note: The question paper is divided into two Sections A & B. Attempt all questions as per instructions. Draw diagram to support your answer, wherever necessary. Attempt both the parts in separate answer sheets.

PART - A
(GENERAL HUMAN PHYSIOLOGY) [Max Marks: 35 marks]

1. Explain the structure of Neuro Muscular Junction. Add a note on the sequence of events at NMJ during the transmission of a nerve impulse. [2+8=10]
2. Write short notes on : [5x4=20]
 - (a) Transport of Oxygen
 - (b) Diffusion
 - (c) Errors of Refraction
 - (d) Juxta Glomerular Apparatus
3. Define the following : [1x5=5]
 - (a) Diabetes Mellitus
 - (b) Dyspnea
 - (c) Hypertension
 - (d) Peristalsis
 - (e) Diabetes Mellitus

PART - B
(BIOCHEMISTRY) [Max Marks:35 marks]

- Q 1.: Define iso-enzymes and their diagnostic applications. Mention utility of therapeutic enzymes with example. [4+3=7]
- Q 2.: Discuss the diagnostic criteria for diabetes mellitus. Describe the biochemical basis of acute and chronic complications in diabetes mellitus? How does HbA_{1c} contribute to the follow up of this condition? [2+4+2=8]
- Q 2.: Describe the types, causes and clinical features of protein energy malnutrition. [1+2+2=5]
- Q 4. Write short answers: [3x5=15]
 1. Significance of HMP shunt.
 2. Inhibitors of ETC.
 3. Functions of Vitamin B12 and its deficiency disorders.
 4. Gluconeogenesis.
 5. Beta Oxidation of fatty acid.
