

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH
FIRST YEAR B.D.S. DEGREE EXAM -

2023 (Batch 22)

GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY

Time: 3 Hours

Max Marks: 70 Marks

SECTION - A

GENERAL HUMAN PHYSIOLOGY

PAPER CODE: 2311105002

Note: Attempt all questions in sequence. Draw neat labeled diagrams wherever necessary.

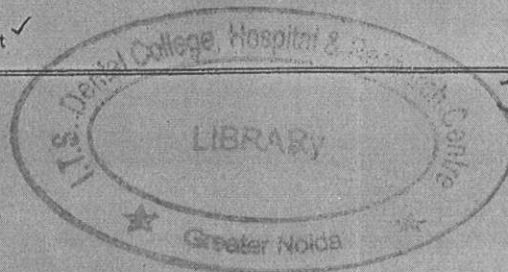
- 1 LONG ESSAY QUESTIONS (Attempt Any One) 1 X 10 = 10 Marks
- i) Draw a well labelled diagram of oxygen hemoglobin dissociation curve. Briefly discuss the factors which shifted the curve to the right.
- ii) Define anemia. Give its etiological classification. Briefly discuss about Iron Deficiency Anemia.
- 2 WRITE NOTES ON 3 X 5 = 15 Marks
- i) Sodium potassium pump ✓
- ii) Functions of saliva ✓
- iii) Abnormal secretion of growth hormone ✓
- 3 SHORT NOTES 5 x 2 = 10 Marks
- i) Function of pancreatic juice ✓
- ii) Refractory period ✓
- iii) Factors affecting GFR ✓
- iv) Hypovolumic shock ✓
- v) Vasectomy ✓

SECTION - B

BIOCHEMISTRY

PAPER CODE: 2311105003

- 1 LONG ESSAY QUESTIONS (Attempt Any One) 1 X 10 = 10 Marks
- i) What are the various forms of calcium present in blood? Enumerate its function. How its level is regulated within normal range in blood? Describe. ✓
- ii) How blood glucose level is maintained within normal range? Describe role of various hormones and enumerate various pathways.
- 2 WRITE NOTES ON 3 X 5 = 15 Marks
- i) Vitamin C and Scurvy ✓
- ii) Atherosclerosis and LDL ✓
- iii) Dental caries and role of Fluoride ✓
- 3 SHORT NOTES 5 x 2 = 10 Marks
- i) Enlist hemoglobinopathies ✓
- ii) Essential fatty acids and its dietary sources ✓
- iii) Mucopolysaccharides ✓
- iv) Gene therapy ✓
- v) Kidney function test ✓



JAN. 2023