

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA STATE – 506 002

BDS FIRST YEAR DEGREE EXAMINATIONS: SEPTEMBER 2025

GENERAL HUMAN PHYSIOLOGY AND BIOCHEMISTRY

Time: 3 Hours

Max Marks: 70

Note: Answer part A & B questions in two separate answer books

Question in part “A” should not be answered in part “B” and vice versa. Otherwise they will not be valued

PART-A (Physiology) 35 Marks

Write an essay on the following: **1 X 9 = 9**

1. Enumerate the events of cardiac cycle. Describe the pressure changes in left ventricle of the heart.

Write a short note on the following: **4 X 4 = 16**

2. Explain the Oxygen Transport mechanisms in blood.
3. Functions of parathormone.
4. Composition and functions of exocrine pancreatic secretion.
5. Describe the intrinsic pathway of blood coagulation.

Write briefly on the following: **5 X 2 = 10**

6. Functions of Hypothalamus.
7. Myopia.
8. Sarcomere.
9. Juxtaglomerular apparatus.
10. Stages of spermatogenesis.

PART-B (Biochemistry) 35 Marks

Write an essay on the following: **1 X 9 = 9**

11. Write the dietary sources, daily requirements and functions of Calcium.
How serum calcium level is regulated?

Write a short note on the following: **4 X 4 = 16**

12. Functions of plasma proteins.
13. Glycolysis.
14. Ketogenesis.
15. Role of Kidney in regulation of PH of Blood.

Write briefly on the following: **5 X 2 = 10**

16. Poly unsaturated fatty acids (PUFA).
17. Fluorosis.
18. Name the stages of transcription.
19. Dietary fibre.
20. Enzyme markers in Myocardial Infarction.
