

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA STATE – 506 002

BDS FIRST YEAR DEGREE SUPPLEMENTARY EXAMINATIONS: FEBRUARY, 2026

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. Define erythropoiesis. Explain the different stages. Add a note on the factors required for erythropoiesis.

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

2. Describe the different heart sounds.
3. Types of hypoxia.
4. Composition and functions of Saliva.
5. Give the definition and the changes occurring during a menstrual cycle.

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

6. Muscle stretch reflex.
7. Functions of middle ear.
8. Diabetes mellitus.
9. Reabsorption from the proximal tubules of kidney.
10. Properties of cardiac muscle.

PART-B
(Biochemistry) 35 Marks

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

11. Outline the reactions of Citric acid cycle. What are the energetics.

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

12. Functions and deficiency manifestations of Calcitriol.
13. Electron transport chain and its inhibitors.
14. Immunoglobulins.
15. Competitive enzyme inhibition and its importance in medicine.

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

16. Basal metabolic rate (BMR).
17. Metabolic acidosis.
18. Transamination reactions.
19. Name the Pyrimidine bases.
20. Sickle cell Anemia.
