

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002**

BPT FIRST YEAR DEGREE EXAMINATIONS: JANUARY 2026

BIOCHEMISTRY

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Draw diagrams wherever necessary

Write an essay on the following:

2 X 10 = 20

1. A. Describe Ketoacids with clinical conditions. Narrate production and utilization of Ketone Bodies. (5+2+3)

OR

- B. Describe Krebs Cycle and energetics. Explain Anaplerosis and Amphibolic Nature. (7+3)

2. A. Describe Urea Cycle and its regulation. Add a note on Ammonia Toxicity. (6+2+2)

OR

- B. Write the Functions, RDA, Sources and deficiency of Vitamin A. (4+1+1+4)

Write short note on the following:

8 X 5 = 40

3. Isoenzymes.
4. NADPH Functions.
5. PDH Complex.
6. Phenyl Ketonuria.
7. Folate Trap.
8. Metabolic Acidosis.
9. Forms of Calcium in Blood.
10. Renin-Angiotensin.

Write briefly on the following:

10 X 2 = 20

11. Bile Salts.
12. Vitamin D Synthesis.
13. Lipotropic factors.
14. Proteinuria.
15. Dietary Fibers.
16. Hyperkalemia.
17. Alkaline Reserve.
18. Post Hepatic Jaundice.
19. Von Gierke Disease.
20. Lactose Intolerance.
