

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002
BPT FIRST YEAR DEGREE SUPPLEMENTARY EXAMINATIONS: JULY 2025
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) Classify Lipoproteins. Explain their biological significance. (3+7)

OR

- b) Describe HMP shunt pathway. Write its significance. (6+4)

2. a) Describe the metabolism of methionine. (10)

OR

- b) Describe sources, biochemical functions, requirements, and deficiency manifestations of vitamin A. (2+3+2+3)

Write a short note on the following:

8 X 5 = 40

3. Inborn errors of urea cycle.
4. Purine catabolism.
5. Competitive enzyme inhibition.
6. Balanced diet chart for medical students.
7. Mechanism of steroid hormones.
8. Coenzyme activity of vitamin B-complex.
9. Beriberi.
10. Importance of diagnostic enzymes.

Write briefly on the following:

10 X 2 = 20

11. Maple syrup urine disease.
12. Prostaglandins.
13. Marasmus.
14. Glycogen storage disease.
15. Process of muscle contraction.
16. Rickets.
17. Phagocytosis.
18. Nitrogen balance.
19. Glycolipids.
20. Reference range of serum calcium and its renal threshold.
