



Time: Three Hours

Max. Marks: 80 Marks

BIOCHEMISTRY (RS-5)

Q.P. CODE: 2733

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain Gluconeogenesis. Add a note on its importance.
2. Explain different types of enzyme inhibition with suitable examples.
3. What is the normal blood pH? Explain the role of kidneys in maintaining acid base balance.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Functions of vitamin C
5. Define hormones. Classify hormones with examples.
6. What are lipoproteins? Name them and explain their functions.
7. Active transport mechanism across cell membrane
8. Structural classification of amino acids
9. Explain the mechanism of absorption of iron. Add a note on deficiency manifestations.
10. Define Basal Metabolic Rate. Mention the factors affecting BMR.
11. Functions of calcium
12. Renal function tests
13. Functional classification of proteins

SHORT ANSWERS

10 x 2

14. Name the key enzymes of glycogenolysis.
15. Functions of Golgi apparatus
16. Deficiency features of Vitamin A
17. Isoenzymes
18. Name any two important compounds obtained from Glycine.
19. Emulsification of fats
20. Write the normal reference ranges of a) Serum Potassium b) Serum Calcium.
21. Name Essential fatty acids. List their functions.
22. Structure of tRNA
23. Vandenberg's test