



Time : 3 Hrs.

[Max. Marks : 90]

Biochemistry [Old Scheme]

QP Code - 1005

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the De-Novo synthesis of Fatty acids with its regulation
2. Give an account of the sources, absorption, RDA, functions, regulation and deficiency manifestations of calcium

SHORT ESSAY

10 X 5 = 50 Marks

3. Isoenzymes and their clinical importance
4. Regulation of blood sugar level
5. Digestion and absorption of proteins
6. Compounds formed from tyrosine and their importance
7. Oxidative Phosphorylation
8. Functions of different types of RNAs
9. Gene therapy
10. Biochemical investigations to differentiate types of jaundice
11. Explain the maintenance of pH of the blood by renal mechanism
12. RDA, functions & deficiency manifestations of thiamine

SHORT ANSWERS

10 X 2 = 20 Marks

13. Define Respiratory Quotient (RQ). Mention the RQ of carbohydrates, proteins & Lipids
14. Role of Vitamin E
15. Role of cytochrome P₄₅₀ in detoxification reactions
16. What is respiratory acidosis? How is it compensated?
17. Functions of phospholipids
18. State any two enzymes of the liver function test and give their normal values.
19. Mention the functions of Hyaluronic acid and Heparin
20. Name the immunoglobulins. Give their functions.
21. Name abnormal hemoglobins
22. Name essential Fatty acids. Why are they called essential?

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