



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. Write the steps of aerobic glycolysis. Mention its regulation and calculate the net ATPs formed
2. Describe the metabolism of phenylalanine and tyrosine. Indicate the inborn errors associated with this pathway

SHORT ESSAY

10 X 5 = 50 Marks

3. Biochemical functions of Vitamin A
4. Regulation of glycogen metabolism
5. Urea cycle
6. Biochemical tests to differentiate types of jaundice
7. Isoenzymes in diagnosis
8. Name lipoproteins and mention their function
9. Vitamin K
10. Structure and functions of t-RNA
11. Blood calcium Homeostasis
12. Post-Transcriptional modifications in eukaryotes

SHORT ANSWERS

10 X 2 = 20 Marks

13. Lysosomes and their functions
14. Genetic code
15. Name the coenzyme forms of vitamin B₁ and vitamin B₁₂
16. Enzyme defects in (a) Hereditary Fructose intolerance (b) Galactosemia.
17. Rothera's test
18. Alkali Reserve
19. Antioxidant enzymes
20. Substrate Level Phosphorylation
21. Steatorrhea
22. Name the components of Pyruvate Dehydrogenase complex

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