Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2007

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 reactions of Krebs's citric acid cycle. Write the significance of the pathway.
2. Define genetic code. What are the salient features of genetic code?

SHORT ESSAY **10 X 5 = 50 Marks**

3. Protein energy malnutrition
4. Malate-aspartate shuttle
5. Pyruvate-dehydrogenase complex
6. Tumor markers
7. Functions of plasma proteins
8. Lac operon
9. Plasma buffers
10. Formation and utilization of ketone bodies
11. Competitive inhibition
12. Fluid mosaic model of plasma membrane

SHORT ANSWERS **10 X 2 = 20 Marks**

13. Uncouplers of oxidative phosphorylation
14. Zymogens
15. Ninhydrin reaction
16. Lysosomes
17. Transamination reaction
18. Write the defect in the following diseases
    a) Alkaptonuria
    b) Maple syrup urine disease
    c) Classical albinism
    d) Hartnup's disease
19. Rate limiting reaction in pyrimidine biosynthesis
20. Role of bile salts in digestion
21. Beer-Lambert's law
22. Write the reaction by which
    Acetyl CoA→Malonyl CoA

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