

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - December 2010

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. Define enzymes explain the mechanism of enzyme action. Add a note on inhibition of enzymes
2. Why TCA cycle is called as common metabolic pathway. Describe the TCA cycle with energetics

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

3. Biological importance of peptides
4. Sources, functions & deficiency manifestation of vitamin C
5. Absorption of lipids
6. Functions of calcium and its deficiency manifestations
7. Outline the De-Novo synthesis of fatty acids
8. Metabolic disorders of purines
9. Alkaptonuria
10. Ketosis
11. Catabolism of tyrosine
12. Operon concept of gene regulation

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

13. Name the products synthesized from cholesterol
14. How following compounds are detoxified
a) Aspirin b) Picric acid
15. Mention four functions of lipoprotein
16. Mention nutritional importance of proteins
17. Functions of thiamine pyrophosphate
18. Mention the importance of serum enzyme estimation in liver diseases
19. Sickle cell anemia
20. What is codon? Mention its characteristics
21. What is active transport? Give an example
22. Any four functions of vitamin A

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