

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June / July 2011

Time : 3 Hrs.

[Max. Marks : 100]

**BIOCHEMISTRY (Revised Scheme)**

**QP Code: 1055**

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

**LONG ESSAY**

**2 X 9 = 18 Marks**

1. Explain how glycogen is synthesized in our body with its regulation
2. Describe the ketogenesis and add a note on ketosis

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Define and classify enzymes
4. Lac operon hypothesis
5. Epimerization
6. Metabolic acidosis
7. Degradation of purines
8. Homocystinuria
9. Liver function tests
10. Explain the mechanism of transport across cell membrane
11. Explain the salvage pathway of purines
12. Transamination

**SHORT ANSWERS**

**16 X 2 = 32 Marks**

13. Detoxification
14. Endocytosis
15. Denaturation of proteins
16. Essential amino acids
17. Functions of calcium
18. Cyclic nucleotides
19.  $K_m$  value of enzymes & its significance
20. Functions of vitamin 'A'
21. Substrate level phosphorylation with example
22. Cori's cycle
23. Glucose tolerance test
24. Name the important compounds produced from tyrosine
25. Define P: O ratio
26. Enumerate the consequences of obesity
27. Physiological jaundice
28. Functions of thiamine

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