

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - July 2008

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. Give an account of the metabolism of phenylalanine and highlight the inborn errors of metabolism in the pathway
2. Give an account of glycolysis and the energetics of the pathway

SHORT ESSAY

10 X 5 = 50 Marks

3. Phospholipids
4. Wald's visual cycle
5. Michaelis - Menton constant and its significance
6. Biologically active peptides
7. Glucose alamine cycle
8. Electron transport chain
9. Structure of DNA
10. Ketosis
11. Enzymes in clinical diagnosis
12. Basal metabolic rate and its determination

SHORT ANSWERS

16 X 2 = 32 Marks

13. Name the Glycosaminoglycans
14. Denaturation
15. Name four non proteins aminoacids
16. Name the Eicosanoids
17. What are isoenzymes, give examples
18. What is the normal level of NPN substances in the blood?
19. Enzyme defect and the consequences in Lesch-Nyhan Syndrome
20. Structure of m-RNA
21. Give two examples for Carboxylation reaction
22. Name the plasma lipoproteins
23. Significance of Hexose Monophosphate shunt pathway
24. How is paracetamol detoxified?
25. Name the different kinds of Immunoglobulins
26. Name two prophyrias and the enzyme defect in them
27. Name the blood buffers
28. Name four biochemical functions of zinc
