

Rajiv Gandhi University of Health Sciences

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

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. What is Normal blood glucose level? Describe the various mechanisms for its regulation
2. What is Lac-operon? Describe the steps of protein biosynthesis

SHORT ESSAY

10 X 5 = 50 Marks

3. Functions of folic acid and vit B₁₂
4. Ketosis
5. Importance of HMP pathway
6. Urea cycle
7. Formation and functions of glycine
8. Creatine - phosphate
9. Clinical significance of enzymes
10. Blood buffers
11. Formation and fate of bilirubin
12. Applications of recombinant DNA technology

SHORT ANSWERS

10 X 2 = 20 Marks

13. Name the liver function tests based on enzyme measurement
14. What is allosteric modification of enzyme? Give two examples
15. Define creatinine clearance. What is the normal value?
16. Differentiate between ICF and ECF
17. Write the important metabolites derived from tryptophan
18. Inhibitors of respiratory chain
19. What is glycosylated hemoglobin? Write its importance
20. Four functions of plasma proteins
21. What is normal blood urea level? Two causes of uremia
22. Name the various bonds stabilizing protein structure

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