

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June 2013

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 are enzymes? Explain factors affecting enzyme activity. Add a note on enzyme specificity
2. How is ammonia formed & Detoxified in liver and brain?

SHORT ESSAY

10 X 5 = 50 Marks

3. Glycogenesis & its significance
4. Explain secondary structure of proteins
5. Lipoproteins and their role in transport of lipids
6. High energy compounds
7. Formation of uric acid and disease associated with its accumulation
8. Functions of calcium
9. DNA replication
10. Coenzyme forms and biochemical functions of Niacin
11. Polymerase chain reaction and its application
12. Protein energy malnutrition

SHORT ANSWERS

10 X 2 = 20 Marks

13. Name key enzymes of gluconeogenic pathway
14. Mention normal cholesterol level & functions of cholesterol
15. What are lipotropic factors? Name them
16. Define mutagens. Name two mutagens
17. Enlist functions of vitamin A
18. Acute intermittent porphyria
19. Explain detoxification by conjugation with two examples
20. Functions of DNA
21. What is hyponatremia? What are its causes?
22. Hemoglobin as buffering agent

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