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Rajiv Gandhi University of Health Sciences, Karnataka MBBS (Phase - I) Degree Examination - Dec-2014

Time: Three Hours

Max. Marks: 100 Marks Biochemistry – Paper I (Revised Scheme) Q.P. CODE: 1055

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

LONG ESSAYS

- Describe Tricarboxylic Acid (Citric Acid) Cycle. Add a note on its energetics and regulation. 1.
- 2. Mention the sources, daily requirement, and functions of Calcium. Explain how Serum Calcium levels are regulated.

SHORT ESSAYS

- Name the Co-enzyme form of Vitamin B6. Describe the biochemical reactions involving it. 3
- 4 Formation and fate of Bilirubin
- 5. Renal regulation of pH
- 6. Write a note on Salvage pathway of Purines.
- 7. Competitive inhibition of enzyme activity
- 8 Explain the following aspects of Thiamine (a) Co-enzyme, (b) Functions, (c) Deficiency manifestations.
- Discuss the biochemical changes during Starvation. 9.
- 10. Urea cycle and its regulation
- Formation and clinical significance of Ketone bodies Ranker 11.
- 12. Oxidative Phosphorylation

SHORT ANSWERS

- 13. Pellagra
- 14. Invert sugar
- 15. Name any four diagnostic enzymes
- Proteolytic enzymes 16.
- 17. Role of Carnitine in β oxidation
- 18. Name the enzyme defect in (a) Phenylketonuria, (b) Alkaptonuria.
- 19. Creatinine clearance
- 20 Respiratory Quotient
- 21. What is Mutation? Give two examples.
- 22. Role of Cytochrome P450 in detoxification
- 23. Vanden Bergh's reaction
- 24. Name the Blood Buffers.
- 25. Lipotropic factors
- Name the products formed from Glycine. 26.
- 27. Give the normal values of fasting Blood Glucose and Blood Urea.
- 28. Hartnup's disease



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16 x 2 = 32 Marks

2 x 9 = 18 Marks

10 x 5 = 50 Marks