www.canestar.com

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - December 2010

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

- Describe the pentose phosphate pathway. Why is it called multifunctional? What is the significance
 of this pathway
- Describe the β oxidation of palmitate. Write a note on its energetics

SHORT ESSAY 10 X 5 = 50 Marks

- Any three liver function tests
- 4. Functions of phospholipids
- 5. Formation of bile acids
- 6. Detoxication by conjugation with examples
- 7. Use of phosphate buffer in maintaining acid base balance
- 8. Applications of DNA recombinant technology
- 9. Urea cycle and its regulation
- 10. Facilitated diffusion
- Factors affecting enzyme activity
- What is PKU. What are the alternate metablic pathways for the accumulated phenyl alanine? How is it diagnosed biochemically

SHORT ANSWERS 16 X 2 = 32 Marks

- 13. Functions of vitamin A
- 14. Importance of essential amino acids
- 15. Functions of dietary fibre
- Biochemical role of thiamine
- Zymogens
- 18. Explain any two types of porphyrias
- 19. Four functions of plasma proteins
- 20. Respiratory Quotient
- 21. Structure and functions of any two immunoglobulins
- 22. Positive nitrogen balance
- 23. Salient features of chargaff's rule
- 24. Secondary structure of proteins
- 25. Amphibolic role of citric acid cycle
- Function of free radicals
- 27. Transports and storage of iron
- 28. Importance of any two prostaglandins
