Q.P.Code:102379	REG. No:

## FIRST YEAR M.Sc. MEDICAL PHYSIOLOGY DEGREE EXAMINATIONS, DECEMBER 2012. (FOUNDATION COURSE)

Time: 3 hrs Max. Marks:- 70

PAPER II-BIOCHEMISTRY

- Answer all the questions
- Draw diagrams wherever necessary

Essay: (2x10=20)

- 1. Describe the steps in beta oxidation of fatty acids. Explain the energetics of beta oxidation taking one molecule of palmitic acid as an example. (6+4=10)
- 2. Describe the steps in translation. Explain briefly on any four post-translational modifications. (6 + 4 = 10)

Short Notes: (6X5=30)

- 3. Principle and applications of polymerase chain reaction
- 4. List five applications of radio-isotopes
- 5. Enzymes used as liver function tests
- 6. Metabolic alkalosis
- 7. Formation of ketone bodies
- 8. Diagrammatically represent electron transport chain showing sites of ATP synthesis

Answer briefly: (10x2=20)

- 9. Heat coagulation test
- 10. Significance of co-enzymes
- 11. Galactosemia
- 12. Sickle cell anemia
- 13. Von gierke disease
- 14. Fatty liver
- 15. Deficiency manifestations of vitamin K
- 16. Aikaptonuria
- 17. Tests used in the diagnosis of acquired immunodeficiency syndrome
- 18. Western blotting

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