Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination - DEC-2014

Time: Three Hours Max. Marks: 70 Marks

MEDICINAL BIOCHEMISTRY

Q.P. CODE: 2853

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

LONG ESSAYS (Answer any Two)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Explain the biochemical reaction steps involved in the protein biosynthesis.
- 2. Define glycolysis. Describe the biochemical pathway for breakdown of glucose to pyruvate and lactate. Write about the energetics.
- 3. Outline the reaction steps involved in the cholesterol biosynthesis.

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- 4. Describe the synthesis and metabolism of ketone bodies.
- 5. Describe the steps involved in the β -oxidation of palmitic acid with energetics.
- 6. Metabolism of bile pigments
- 7. Explain the hormonal regulation of carbohydrate metabolism.
- 8. Differentiate between oxidative phosphorylation and substrate phosphorylation.
- 9. Mention the different kidney function tests. Explain in detail any two of them.
- 10. Radio immuno assay (RIA).
- 11. What are Isoenzymes? Give their diagnostic applications.

SHORT ANSWERS 10 x 2 = 20 Marks

- 12. Semiconservative replication of DNA
- 13. Cyclic AMP.
- 14. Transamination.
- 15. Urinary tract calculi.
- 16. Serum bilirubin.
- 17. Porphoria.
- 18. Uncouplers of ETC.
- 19. Atheroslerosis.
- 20 Diabetes mellitus.
- 21. Essential amino acids
