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Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - NOV 2017

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL BIOCHEMISTRY (RS & RS2) 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 x 10 = 20 Marks

- Explain the reactions, energetics and significance of TCA cycle.
- Explain in detail about biosynthesis of proteins.
- 3. Define enzyme inhibition and discuss the different types of enzyme inhibitions.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

- Discuss the biochemical role and deficiency symptoms of vitamin B₂ and B₆.
- Explain the reactions of palmitate synthesis starting from acetyl CoA.
- Explain the chemiosmotic theory of oxidative phosphorylation.
- 7. Explain the transamination reactions involved in the catabolism of amino acids.
- 8. List out different kidney function tests Explain any two of them.
- What is ELISA? Give its principle and application.
- Write the principle and significance of SGPT and SGOT determination.
- Discuss the glucose tolerance test with its significance.

SHORT ANSWERS

10 x 2 = 20 Marks

- 12. Write the structure and significance of ATP.
- 13. What is Gout?
- 14. Write Michaelis-Menten equation with notations used.
- 15. What is the use of malate-aspartate shuttle?
- 16. What is hypercholesterolemia? Name two disorders that result in hypercholesterolemia.
- Name four metabolic disorders of urea cycle with enzyme defect.
- 18. What are Okazaki fragments?
- 19. How is the level of sodium determined in the body fluids?
- Write about HDL and LDL
- 21. Write the composition of ORS.

