

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year Pharm-D Examination - 07-Dec-2020

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

1. Describe aerobic pathway of glucose metabolism with its energetic and significance.
2. Explain in detail biosynthesis of purine.
3. Describe in detail de-novo synthesis of fatty acids.

#### SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Write a short note on hormones regulating blood glucose level.
5. Briefly explain factors affecting enzyme action.
6. Write the cycle for synthesis of glucose from glycogen.
7. Write a note on DNA repair.
8. Explain briefly atherosclerosis.
9. Write a note on liver function tests.
10. Explain the principle, procedure and applications of ELISA.
11. Write a note on water and electrolyte balance.

#### SHORT ANSWERS

10 x 2 = 20 Marks

12. Anaplerosis.
13. Carnitine transporter.
14. Inhibitors of protein synthesis.
15. Name the any two therapeutic enzymes with its use.
16. Synthases and Synthetases.
17. Chylomicrons.
18. Alkaptonuria.
19. Nitrogen balance
20. Purine and Pyrimidine bases.
21. Role of tetrahydrofolate.

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