

Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – June 2013

Time: Three Hours

Max. Marks: 100 Marks

BIOCHEMISTRY (RS2 & RS3)

QP Code: 1080 – Paper II (Max.Marks:50)

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

Use separate answer books for section A and Section B

LONG ESSAYS

1 x 10 = 10 Marks

1. What are sources of C & N atoms of purine? Describe the biosynthesis of purine and add a note on its regulation.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Name the different types of RNA. Write their salient features. Mention their functions.
3. What are buffers? Discuss any **two** buffer system of the body.
4. Give the biochemical functions of niacin with examples and manifestation of its deficiency.
5. What is a restriction endonuclease? Explain their role in recombinant DNA technology.
6. Give an account of phosphorus metabolism.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Post translational modifications.
8. Base pairing rule and Wobble hypothesis.
9. Biochemical defect in Thalassemia.
10. Cause of Scurvy and beri beri.
11. Creatinine clearance test.
