



# Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – June 2014

**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. Define translation. Describe the steps of translation. Name four inhibitors and their action

### **SHORT ESSAYS**

**5 x 5 = 25 Marks**

2. How is bilirubin formed and excreted? Name the abnormalities associated with bilirubin metabolism.
3. Describe the liver function tests based on synthetic and excretory role
4. Write the Henderson-Hasselbach equation and its significance in bicarbonate buffer system.
5. Discuss the biochemical changes during starvation
6. What are nucleotides? What are the sources of C and N atoms of purine nucleotide? Mention the metabolic disorders associated with purine metabolism

### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

7. Monoclonal antibodies.
8. PCR and its application.
9. Southern Blot techniques.
10. "Gilberts syndrome"
11. Acute intermittent porphyria.

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