

# Rajiv Gandhi University of Health Sciences, Karnataka

**MBBS Phase – I Degree Examination - DEC 2016**

**Time: Three Hours**

**Max. Marks: 50 Marks**

## **Biochemistry – Paper I (RS2 & RS3)**

**Q.P. CODE: 1079**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**(Note: Both QP Codes 1079 and 1080 are to be, answered within total duration of three hours)**

**(Use separate Answer books for QP Code 1079 & 1080)**

### **LONG ESSAYS**

**1 x 10 = 10 Marks**

1. Explain the effect of different factors on the rate of Enzyme Catalyzed reactions.

### **SHORT ESSAYS**

**5 x 5 = 25 Marks**

2. Define Gluconeogenesis. Explain the key reactions of Gluconeogenesis.
3. What are Essential Fatty Acids? What are the functions of Essential Fatty Acids?
4. Briefly discuss the Transamination reactions with examples.
5.  $\beta$ -oxidation of Palmitic acid
6. Explain the synthesis of Catecholamines.

### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

7. Explain the relationship between  $K_m$  and Affinity.
8. What is meant by Denaturation of Proteins? What are the causes of Denaturation of Proteins?
9. Galactosemia
10. Discuss the role of Glutathione.
11. List the site inhibitors of Electron Transport Chain.

\*\*\*\*\*

# Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – DEC 2016

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. Discuss RDA, Functions and Deficiency manifestations of Folic acid. How is it interlinked to Vitamin B12?

### SHORT ESSAYS

**5 x 5 = 25 Marks**

2. Post translational modifications
3. Biochemical basis of Gout and its features
4. Recombinant DNA technology
5. Iron absorption and transport
6. Causes and general features of Porphyrrias

### SHORT ANSWERS

**5 x 3 = 15 Marks**

7. Protein Energy Malnutrition
8. Marker enzymes of liver function test
9. Alkalosis
10. Diagnosis importance of serum protein electrophoresis
11. RNA polymerases

\*\*\*\*\*