

# Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - February 2007

Time: 3 Hours

[Max. Marks: 100]

## BIOCHEMISTRY (Revised Scheme II)

QP Code : 1079 – Paper I (Max. Marks: 50)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. **Use separate answer books for section A and section B.**

### LONG ESSAY

**1 X 10 = 10 Marks**

1. Explain the influence of various factors on enzyme activity.

### SHORT ESSAY

**5 X 5 = 25 Marks**

2. Urea formation in liver
3. Glycogen storage diseases
4. Name any five products formed from glycine
5. Fatty liver and lipotropic factors
6. Purine salvage pathways

### SHORT ANSWERS

**5 X 3 = 15 Marks**

7. Mechanism of oxidative phosphorylation
8. Functions of prostaglandins
9. Oncogenes
10. Mutarotation
11. Antioxidants

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

**Use separate answer book**

### LONG ESSAY

**1 X 10 = 10 Marks**

1. Write in detail about the distribution of calcium in the body, its functions and regulation of serum levels

### SHORT ESSAY

**5 X 5 = 25 Marks**

2. Chemistry, sources and daily requirements of folic acid
3. Renal mechanisms in acid base balance
4. Transcription
5. Genetic code
6. Catabolism of purines

### SHORT ANSWERS

**5 X 3 = 15 Marks**

7. Clearance tests
8. Functions of albumin
9. Catabolism of heme
10. Trace elements
11. Mention the normal levels of serum proteins, urea and creatinine

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