

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June/July 2009

Time: 3 Hours

[Max. Marks: 100]

BIOCHEMISTRY (RS-2 & RS-3)**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**

- Describe in detail the sources, absorption, functions and factors regulating blood calcium level. Discuss about any clinical condition with abnormal blood calcium level.

SHORT ESSAY**5 X 5 = 25 Marks**

- What are the biologically important compounds derived from cholesterol?
- Prostaglandins
- Give four examples of transmethylation reactions.
- Maple syrup urine disease
- Energy releasing steps of citric acid cycle

SHORT ANSWERS**5 X 3 = 15 Marks**

- Name the two endopeptidases with their specifications
- What are functions of apolipoproteins?
- Give the significance of uronic acid pathway
- Clinical importance of transamination
- Detoxification of alcohol

QP Code: 1080 – PAPER II (Max. Marks: 50)**Use separate answer book****LONG ESSAY****1 X 10 = 10 Marks**

- Describe in detail the sources, absorption, functions and factors regulating blood calcium level. Discuss about any clinical condition with abnormal blood calcium level.

SHORT ESSAY**5 X 5 = 25 Marks**

- What are the sources, functions and daily requirement of vitamin A?
- Transport proteins of blood
- Formation and fate of bilirubin in the body
- Basal metabolic rate
- Bicarbonate buffer system of blood

SHORT ANSWERS**5 X 3 = 15 Marks**

- Polymerase chain reaction
- What is the daily requirement of Thiamine, Niacin and Pyridoxine?
- Give enzyme defect in the following conditions
a) Drug induced haemolytic anaemia b) Crigler-Najjar syndrome
- Creatinine clearance test
- Give the normal blood level of the following
a) Fasting blood glucose b) Total protein c) Urea d) Bicarbonate e) Sodium
f) Potassium

* * * * *