

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JULY-2018

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. Describe the formation, utilization and clinical significance of ketone bodies.

SHORT ESSAYS

5 x 5 = 25 Marks

2. Amphibolic role of citric acid cycle
3. Pathway for synthesis of creatine, phosphocreatine and creatinine Clinical significance of creatinine kinase
4. Outline the synthesis of cholesterol. Which is the key regulatory step
5. The IUBMB classification of enzymes with one example for each class
6. Different transport mechanisms across the cell membrane

SHORT ANSWERS

5 x 3 = 15 Marks

7. Metabolic abnormality and clinical manifestation of galactosemia.
8. Three transmethylation reactions of S-adenosyl methionine
9. Regulation of glycolysis at the phosphofructokinase step
10. Energetics in the oxidation of one molecule of palmitic acid to carbon dioxide and water
11. Name three tumour markers and their clinical significance
