

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – I Degree Examination - JULY-2019

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 Metabolism of phenylalanine and tyrosine and inborn errors associated with it.

**SHORT ESSAYS****5 x 5 = 25 Marks**

2. Describe the steps of beta oxidation of fatty acids from palmitic acid to acetyl CoA.
3. Classify carbohydrates with two examples for each class and subclass.
4. Draw a labeled structure of cell with two organelles. Describe the functions of four organelles.
5. Fatty liver
6. Temperature and pH as factors affecting velocity of enzyme catalysed reactions, with examples

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

7. Fasting and glucose tolerance test criteria for diagnosis of diabetes mellitus
8. Specialized products formed from glycine
9. Anapleurotic reactions of citric acid cycle for three intermediates
10. Site specific inhibitors of electron transport chain with one example for each site
11. Phase two reactions of detoxification

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