

**First Phase MBBS Degree Examination - June 2013****Time: Three Hours****Max. Marks: 100 Marks****BIOCHEMISTRY (RS2 & RS3)****QP Code: 1079 - Paper I (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. What are enzymes? Classify enzymes with one example each. Explain any four factors that affect enzyme activity.

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

2. Define gluconeogenesis. How is alanine converted to glucose?
3. What is substrate level phosphorylation? Give **two** examples with complete reaction.
4. Classify lipoproteins and write the functions of each lipoprotein.
5. What are transamination reactions? Giving **two** examples discuss the importance of these reactions.
6. Classify proteins based on their function giving an example for each class.

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

7. High energy compounds
8. Glycogen storage disorders.
9. Km of an enzyme
10. FIGLU excretion test
11. Mitochondrial shuttle systems.

