

**First Phase MBBS Degree Examination - Dec 2012****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. Define lipids. Classify lipids with an example for each. Mention the functions of the lipids.

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

2. Discuss the metabolic changes during Diabetes Mellitus. .
3. Absorption and storage of iron
4. Is tyrosine an essential amino acid? Justify. Write the reactions of three important biological products formed from tyrosine.
5. Give a diagrammatic representation of mechanism of steroid hormone action.
6. Drawing a neat diagram of a cell and its organelles', explain the functions of each.

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

7. Glutathione.
8. Serotonin.
9. Give three enzymes and their therapeutic uses.
10. Ionophores.
11. Digestion and absorption of disaccharides