

Q.P. CODE: 103019

Reg. No:

**First Year B.Sc Medical Microbiology Degree Supplementary
Examinations, May 2017**

Paper III - General Biochemistry

Time: 2 Hrs

Max. Marks: 50

- Answer all questions
- Draw diagram wherever necessary

Essays: (15)

1. Explain the important features of Watson and Crick model of DNA. Describe the three major types RNA with the help of a diagram or table. List four differences between DNA and RNA.

Short essay: (10)

2. Classify lipids, defining each class and subclass with examples.

Short notes: (3x5=15)

3. Describe briefly the law of mass action and chemical equilibrium
4. Define buffers. Give example of a weak acid, its conjugate base and demonstrate pKa using a titration curve.
5. Name three liver enzymes and their clinical significance

Answer briefly: (5x2=10)

6. Name the active form of vitamin D and its functions
7. Name and explain two clinical features in vitamin C deficiency
8. Primary structure of protein
9. Structure of starch
10. Name two acidic and two basic amino acids
