

**Rajiv Gandhi University of Health Sciences, Karnataka**

I Year B.Sc. (M.L.T) Degree Examination – APRIL 2015

Time: 3 Hours**Max. Marks: 40 Marks****Biochemistry****Q.P. Code : 1603**

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

(Note : Both QP Codes 1602 and 1603 are to be answered within total duration of 3 hours)**LONG ESSAYS (Answer any One)****1 x 10 = 10 Marks**

1. Draw a neatly labeled diagram of a chemical balance. What are the precautionary measures to be taken while weighing chemicals? Give the stepwise procedure to weigh 100 mg of glucose to prepare a standard solution
2. Name the purine and pyrimidine bases, give their importance. Explain the Watson – crick model of DNA structure

SHORT ESSAYS (Answer any Four)**4 x 5 = 20 Marks**

3. p^H meter
4. Principle and procedure of Biuret test and Molisch's test
5. Primary structure of proteins
6. Mention one use of (a) Waterbath (b) Measuring cylinder (c) Pipette (d) Incubator (e) Magnetic stirrer
7. Classify Lipids.

SHORT ANSWERS**5 x 2 = 10 Marks**

8. Note on indicators
9. Define molarity and normality.
10. Biomedical importance of carbohydrates
11. What are buffers? Give two examples
12. Heteropolysaccharides
