

Q.P. CODE: 103016

Reg. No:

First Year B.Sc Perfusion Technology Degree Examinations, September 2015

Biochemistry

Time: 3 Hrs

Max. Marks:80

- Answer all questions
- Draw diagram wherever necessary

Essays:

(2×10=20)

1. Explain the commonly used indicators and its pH range. Name suitable pH indicators used in different titration. Add a note on universal indicators (4+4+2= 10)
2. Define and classify acids & bases. Describe physical and chemical properties with examples. (2+3+ 5=10)

Short notes:

(6×5=30)

3. Urine preservatives
4. Pre analytical errors
5. Cleaning of glass wares
6. Preparation of standard solution of urea
7. Spectrophotometer
8. pH meter

Answer briefly:

(10×3=30)

9. Define molarity. Explain the preparation of 1M NaCl
10. Nutritional importance of carbohydrates
11. Nitrogen balance
12. Calibration of glass pipettes
13. Buffers
14. SI units
15. Safety measures used in the laboratory
16. Blood sugar estimation
17. Lipid profile
18. Ionization of water
