

**Q.P. CODE: 103016**

**Reg. No: .....**

**First Year B.Sc Perfusion Technology Degree Supplementary Examinations,  
May 2014**

**Biochemistry**

**Time: 3 Hrs**

**Max. Marks:80**

- Answer all questions
- Draw diagram wherever necessary

**Essays:**

**(2×10=20)**

1. What is the significance of borosilicate glass. Describe briefly on cleaning solutions and cleaning of glass wares ( 3+7= 10)
2. Define pH and mention normal blood pH. Discuss how blood pH is maintained. ( 1+1+8=10)

**Short notes:**

**(6×5=30)**

3. Anticoagulants
4. Colorimeter
5. Estimation of serum electrolytes
6. Preparation of standard solution of sugar
7. Quality control
8. Manual balances

**Answer briefly:**

**(10×3=30)**

9. Define normality. Explain the preparation of 0.1N HCl
10. Nutritional importance of protein
11. Metabolic and respiratory acidosis
12. Glucometer
13. Flasks
14. Immunoglobulins
15. Safety measures used in the laboratory
16. Blood urea estimation
17. Define and classify salts
18. Rothera's test

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