



**Time: Three Hours**

**Max. Marks: 100 Marks**

**BIOCHEMISTRY (RS2 & RS3)**

**QP Code: 1080 - Paper II (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 × 10 = 10 Marks**

1. Describe the synthesis of pyrimidine and its regulation.

**SHORT ESSAYS**

**5 × 5 = 25 Marks**

2. What is normal serum protein level? Mention **three** important functions of albumin.  
List conditions when A/G ratio is altered.
3. Discuss the metabolic function of sodium and potassium.
4. Clinical importance of AFP and PSA. Give their normal values.
5. Give the key reactions of renal mechanism in acid base balance.
6. What is Gout? Give its clinical manifestations and line of treatment.

**SHORT ANSWERS**

**5 × 3 = 15 Marks**

7. **Four** important radiation monitoring precautions.
8. **Four** enzymes with copper as integral component.
9. Immunoglobulins.
10. Cause for Xeroderma pigmentosa.
11. SDA and 13MR