

**B.Sc., CBCS for all Universities in Telangana (wef 2019-2020)**  
**B.Sc., BIOCHEMISTRY**

**QUESTION BANK: PRACTICALS**

**I Semester-DSC 1A**

**Paper title: Qualitative Analysis of Biomolecules**

**Duration: 3hours**

**Max Marks: 50**

**1. Write the Principles:**

- a. Determination of pKa for amino acids
- b. Preparation of phosphate buffer / acetate buffer
- c. Identification of amino acids by Ninhydrin test
- d. Qualitative test for the identification of reducing sugars
- e. Qualitative test for identification of unsaturated fatty acids

**2. Major Experiment**

- a. Identify the unknown sugar in the given solution and report systematically.
- b. Identify the unknown amino acid in give solution and report systematically.
- c. Determine the pKa of Glycine by titration.

**3. Minor Experiment**

- a. Demonstrate the solubility of the given fats.
- b. Demonstrate the presence of polysaccharides in the given sample.
- c. Prepare 1M NaOH solution and report the steps in preparation.

**4. Viva-Voce**

**5. Record**

\*Marks distribution as per the Model Paper

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**MODEL PAPER PRACTICALS**  
**For I & II Semesters**

**Duration:3 hours**

**Max. Marks 50**

1. Write the Principles for the following experiments (10 Marks)
2. Major Experiment (20 Marks)
3. Minor Experiment (10 Marks)
4. Viva-Voce and Record (10 Marks)