

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: 3 hours**

**Max Marks: 50**

### 1. Write the Principles:

- Determination of pKa for amino acids
- Preparation of phosphate buffer / acetate buffer
- Identification of amino acids by Ninhydrin test
- Qualitative test for the identification of reducing sugars
- Qualitative test for identification of unsaturated fatty acids

### 2. Major Experiment

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

### 3. Minor Experiment

- Demonstrate the solubility of the given fats.
- Demonstrate the presence of polysaccharides in the given sample.
- 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**

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|---|------------|
| 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) |

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