

**B.Sc. BIOCHEMISTRY SYLLABUS UNDER CBCS**  
(With effect from 2016-2017)  
**DSC-1A (PRACTICALS)**

**Paper-1 BIOMOLECULES**

**Marks: 25**

**CREDITS: 1**

1. Qualitative analysis of carbohydrates.
  2. Qualitative analysis of amino acids and proteins.
  3. Qualitative analysis of lipids.
  4. Preparation of solid derivatives of monosaccharides and disaccharides – osazones.
  5. Determination of total Carbohydrate content in cereal by anthrone method.
  6. Isolation of Starch from potato.
  7. Isolation of Casein from Milk.
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**B.Sc. BIOCHEMISTRY SYLLABUS UNDER CBCS**  
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**DSC-IB (PRACTICALS)**

**Paper-II Bioenergetics and Enzymology**

**Marks: 25**

**CREDITS: 1**

1. Calibration of pH meter.
2. Buffer preparation and determination of pH
3. Preparation of normal and molar solutions.
4. Identification of Peroxidase activity.
5. Assay of Amylase.
6. Assay of Acid Phosphatase.
7. Assay of Alkaline Phosphatase.
8. Effect of Temperature and pH on enzyme activity
9. Immobilization of Amylase.
10. Succinate dehydrogenase Enzyme Inhibition study.

## **B.Sc. BIOCHEMISTRY SYLLABUS UNDER CBCS**

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**DSC-1C (PRACTICALS)**

### **Paper-III Intermediary Metabolism**

**Marks: 25**

**CREDITS: 1**

1. Estimation of Glucose by BQR method.
2. Estimation of amino acid by Formal titration.
3. Estimation of Vitamin-C by 2,6-DCPIP method.
4. Determination of iodine number of edible oil.
5. Determination of Saponification of fat/oil.
6. Determination of acid value of fats
7. Estimation of calcium.
8. Estimation of chlorides.
9. Determination of Ion-Exchange capacity of a resin.

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**DSC-1D (Theory)**

**Paper-IV Hormone Biochemistry and Immunology**

**CREDITS: 1**

**MAXIMUM MARKS: 25**

1. Identification of blood groups and Rh typing.
2. Identification of Salmonella Antibodies.(WIDAL Test)
3. Identification of Rapid Plasma reagin.
4. Identification of Autoantigens (Rheumatoid Factor)
5. Identification of surface Ag of Hepatitis B.
6. Identification of HCG Ag by Immunochromatography.
7. Identification of HCG Ag by ELISA
8. Preparation of Agar wells for Ag-Ab interactions
9. Single radial Immunodiffusion
10. Double Immunodiffusion