**MODEL PAPER**

**B.Sc BIOCHEMISTRY revised syllabus under CBCS**

w.e.f. 2023-2024

FIRST YEAR B.Sc. DEGREE EXAMINATION

SEMESTER -1

**Course : 1 Introduction to Classical Biology**

**TIME : 3 HOURS MAXIMUM MARKS :70**

**PART-A**

**ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS**

**EACH CARRIES FIVE MARKS**

**5x5=25 MARKS**

1. **Pollution and Climate change**
2. **Classification of Plant Kingdom**
3. **Phyto Hormones**
4. **Pollination**
5. **Sericulture**
6. **Central Dogma of Molecular Biology**
7. **Branches of Chemistry**
8. **Green Chemistry**

**PART-B**

**ANSWER ALL QUESTIONS EACH CARRIES TEN MARKS**

**5X9= 45 MARKS**

9 (a) Explain about ICBN and ICZN, Binomial and trinomial nomenclature.

(Or)

9(b) Discuss about Biodiversity and conservation.

10 (a) Give an account of Photosynthesis.

(Or)

10(b) Write in detail about Mushroom Cultivation

11(a) Discuss important Hormones and their Disorders

(Or)

11(b) Explain the process of Fertilization, Cleavage and Organogenesis.

12(a) Write the differences between prokaryotic and eukaryotic cell structures.

(Or)

12(b) Discuss about the structure of chromosome.

13(a) Explain about the applications of chemistry in daily life.

(Or)

13(b) Write about the different types chemical bonds.

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FIRST YEAR B.Sc. DEGREE EXAMINATION

SEMESTER -1

**Course :2Introduction to Applied Biology**

**TIME : 3 HOURS MAXIMUM MARKS :75**

**PART-A**

**ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS**

**EACH CARRIES FIVE MARKS**

**5x5=25 MARKS**

1. **Structure and Characteristics of Bacteria and Fungi**
2. **Organs of Immune System**
3. **Classification of Carbohydrates**
4. **Essential Amino Acids**
5. **Biofuels**
6. **ELISA**
7. **Eugenics**
8. **Standard Deviation**

**PART-B**

**ANSWER ALL QUESTIONS EACH CARRIES TEN MARKS**

**5X10=50 MARKS**

9(a) Write about the Contributions of Edward Jenner, Louis Pasteur and Robert Koch.

(Or)

9(b) Discuss about the applications of microorganisms in Food,Agriculture and Environment

10(a) Write about the Classification and significance of Lipids

(Or)

10(b) Discuss the 3 Dimensional structure of DNA

11(a) Discuss briefly about Biofertilizers and Bio Pesticides

(Or)

11(b) Write about the Physical, Chemical and Biological methods of gene transfer

12(a) What is PCR. Discuss its importance

(Or)

12(b) Write about Monoclonal Antibodies and its applications in Diagnosis and

Therapy

13(a) Write about Data Collection and Sampling Methods.

(Or)

13(b) Discuss briefly about the different types of Biological Data Bases.