

# BOTANY PRACTICAL MANUAL

## MODEL QUESTION

- I. Identify the given slide 'A' and give any two reasons
- II. Identify the given specimen 'B' and give any two reasons
- III. Identify the spot 'C' marked on the model/photograph/picture give any two reasons
- IV. Identify the family, dissect and display the given flower 'D'. Write the floral characters of essential parts, draw floral diagram and write floral formula.
- V. Test the given sample solution 'E' for the presence of Reducing sugar (Glucose), Starch, Protein and Lipids Write the Principle and Tabulate the result.
- VI. Write aim, procedure, observation and inference of the given plant physiological experiment setup 'F'.

# Standard 11 Botany Practical Manual

**Wolfgang Guggemos**

## **Standard 11 Botany Practical Manual:**

**Practical Manual Fundamentals of Plant Biochemistry and Biotechnology** Dr. Dinesh Kumar, Dr. Chandra Gurnani, Dr. Priyanka Sharma, 2025-04-15 This manual is designed to provide a detailed and practical guide for students, researchers and practitioners involved in the study of biochemistry, molecular biology and plant tissue culture. The topics covered herein are fundamental to the understanding and application of laboratory techniques and processes used in a variety of biological and biochemical studies. The manual starts with the preparation of solutions, pH adjustment and the use of buffers, essential skills in any biological laboratory. It then progresses through qualitative tests for carbohydrates and amino acids, quantitative estimations of glucose and proteins, and titration methods for amino acids and lipids, providing a comprehensive overview of common biochemical assays. These methods are critical for gaining insights into the molecular composition and behavior of biological samples. Special focus is placed on enzyme kinetics and how factors such as pH, temperature and substrate concentration influence enzyme activity, concepts that are vital in both research and applied biochemistry. Additionally, techniques like paper chromatography and thin layer chromatography (TLC) for separating amino acids and monosaccharides are explored, giving readers practical skills for analyzing and identifying complex biomolecules. The manual also addresses the increasingly important field of plant biotechnology, introducing sterilization techniques, tissue culture media composition and the preparation of stock solutions for Murashige and Skoog (MS) nutrient medium. It covers callus induction, micro propagation and the processes of hardening and acclimatization, which are essential for producing genetically uniform plantlets in vitro. Moreover, the manual provides demonstrations on advanced molecular techniques such as DNA isolation, gel electrophoresis and DNA fingerprinting, tools that are indispensable for genetic studies and molecular diagnostics. By compiling these diverse yet interrelated techniques, this manual aims to equip readers with a solid foundation in both traditional and cutting edge laboratory practices. Whether used in educational settings or research laboratories, this manual serves as an invaluable resource for mastering the essential techniques of modern biological science.

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