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**CLASS
XII**

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- Introduction •**
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Dr. J. P. Sharma



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 Section B Medieval India 5 The Ain I Akbari Agrarian Relations 6 The Mughal Court Reconstructing History through Chronicles 7 Architecture of Hampi Vijaynagara 8 Religious History The Bhakti Sufi Tradition 9 Medieval Society through Foreign Travellers Accounts Section C Modern India 10 Colonialism and Rural Society Evidence from Official Reports 11 1857 A Review 12 Colonial Cities Urbanisation Planning and Architecture 13 Mahatma Gandhi through Contemporary Eyes and His Role in the Indian Politics 14 Partition of India and Its Study through Oral Sources 15 Making of the Indian Constitution Appendix 1 Chronology of Important Events in Indian History 2 Major Dynasties and Associated Kings of Indian History 3 Sacraments and Symbols 4 Foreign Travellers in India 5 Ancient and Medieval Texts 6 Major Wars Battles of Indian History and their Consequences 7 British Governors Governor Generals and Viceroys of India 8 Famous Slogans and Related Personalities of the Indian National Movement 9 Famous Hindi Newspapers of Modern India Year of Inception Their Founder and Place 10 Major Political Social and Nationalist Organizations of Modern India 11 India s Leading Leaders and their Titles Surnames 12 Congress Sessions President and Important Facts 13 Revolutionary Event under the Freedom Movement

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EduGorilla Prep Experts, **Comprehensive Biology XII**, *Science Reporter*, 1997 Publisher's Monthly, 2006 Lab Manual Biology Hard Bound Class 12 Rajesh Kumar, Lab Manual Comprehensive Biology Practical Book & Notebook XII Dr. J. P. Sharma, 2009-01-01 **Comprehensive Practical Biology (Abhilekhan) XII** Dr. J. P. Sharma, Dr. M. P. Mishra, 2008-01-01 *The Educational Review*, 1992 *EduGorilla's CBSE Class 11th Biology Lab Manual | 2024 Edition | A Well Illustrated, Complete La*

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two widely different sites 5 Study the plant population density by quadrat method 6 Study the plant population frequency by quadrat method 7 Prepare a temporary mount of onion root tip to study mitosis 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

B Study observation of the following Spotting

- 1 Flowers adapted to pollination by different agencies wind insects birds
- 2 Pollen germination on stigma through a permanent slide
- 3 Identification of stages of gamete development i.e. T.S. of testis and T.S. of ovary through permanent slides from grasshopper mice
- 4 Meiosis in onion bud cell or grasshopper testis through permanent slides
- 5 T.S. of blastula through permanent slides

Mammalian

- 6 Mendelian inheritance using seeds of different colour sizes of any plant
- 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow's peak and colour blindness
- 8 Controlled pollination emasculation tagging and bagging
- 9 Common disease causing organisms like *Ascaris* *Entamoeba* *Plasmodium* any fungus causing ringworm through permanent slides or specimens

Comment on symptoms of diseases that they cause

10 Two plants and two animals model virtual images found in xeric conditions

Comment upon their morphological adaptations

11 Two plants and two animals models virtual images found in aquatic conditions

Comment

Content EXPERIMENTS

- 1 To study pollen germination on slide
- 2 To study the texture moisture content pH and water holding capacity of soils collected from different sites
- 3 To collect water from different water bodies and study them for pH clarity and presence of living organisms
- 4 To study the presence of suspended particulate matter in air at different sites
- 5 To study plant population density by quadrat method
- 6 To study plant population frequency by quadrat method
- 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine
- 8 To study effect of different temperature and three different pH on the activity of salivary amylase
- 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

SPOTTING

- 1 Pollination in flowers
- 2 Pollen germination
- 3 Slides of mammal tissues
- 4 Meiosis cell division
- 5 T.S. of Blastula
- 6 Mendel's inheritance laws
- 7 Pedigree chart
- 8 Controlled pollination
- 9 Common disease causing organisms
- 10 Xerophytic adaptation
- 11 Aquatic adaptation

Lab Manual Biology Class 12 Rajesh Kumar, Lab Manual *Practical/Laboratory Manual Biology Class XI based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. Sunita Bhagia, Megha Bansal, 2020-06-23

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Introduction

- 1 Necessary equipments chemicals and other things for practical work
- 2 General Instructions for practical work
- 3 Special Instructions for practical note book Drawing and Recording
- 4 Special Instructions for spotting

EXPERIMENTS

- 1 To study and describe the flowering plant belonging to family one from each of the families a Solanaceae b Fabaceae c Liliaceae
- 2 To prepare temporary slide of transverse section of dicot monocot stem dicot monocot root
- 3 To study osmosis by potato osmometer
- 4 To study of plasmolysis in epidermal peel of *Tradescantia* or *Rhoeo* leaf
- 5 To study the distribution of stomata on the upper and lower surface of a leaf
- 6 To compare the rate of transpiration in upper and lower

surface of the leaf 7 To test the presence of sugars Glucose Sucrose and Starch proteins and fats and to detect their presence in suitable plant and animal materials 8 To study the separation of plant pigments by paper chromatography 9 To study the rate of respiration in flower buds leaf tissue and germinating seeds 10A To test presence of urea in urine 10B To test presence of sugar in urine 10C To detect presence of albumin in urine 10D To test urine for presence of bile salt SPOTTING 1 Study of compound microscope 2 To study the plant specimen and identification with reasons Bacteria Oscillatoria Spirogyra Rhizopus Mushroom Yeast Liverwort Moss Fern Pine One Monocotyledonous plant One dicotyledonous plant and one Lichen 3 Study of animal specimens 1 Amoeba 2 Hydra 3 Fasciola Hepatica Liver fluke 4 Ascaris Lumbricoides 5 Hirudinaria Granulosa 6 Pheretima Posthuma 7 Palaemon 8 Bombyx Mori 9 Apis Indica Honeybee 10 Pila Globosa Snail 11 Asterias Starfish 12 Scoliodon Dogfish Shark 13 Labeo Rohita Rohu 14 Rana Tigrina Frog 15 Hemidactylus Lizard 16 Columba Livia Pigeon 17 Orytolagus Cuniculus Rabbit 4A To study the plant tissues Palisade cells Guard cells Parenchyma Collenchyma Sclerenchyma Xylem and Phloem through prepared slide 4B To study the animal tissue squamous epithelium muscles fibres through prepared slide 4C To study mammalian blood smear by temporary permanent slide 5 Study of mitosis in root tip of onion 6 Study of different modification in root stem and leaves 7 To study and identify different types of inflorescence Racemose and Cymose 8 To study imbibition in seed raisins 9 To demonstrate that anaerobic respiration takes place in the absence of air 10 To study human skeleton and joints 11 To study the external features of cockroach with help of model or chart

Comprehensive Biology Activities Vol.I XII Dr. J. P. Sharma, 2010-12-01

Whispering the Secrets of Language: An Psychological Journey through **Class 12 Biology Practical Manual Comprehensive Cbse**

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