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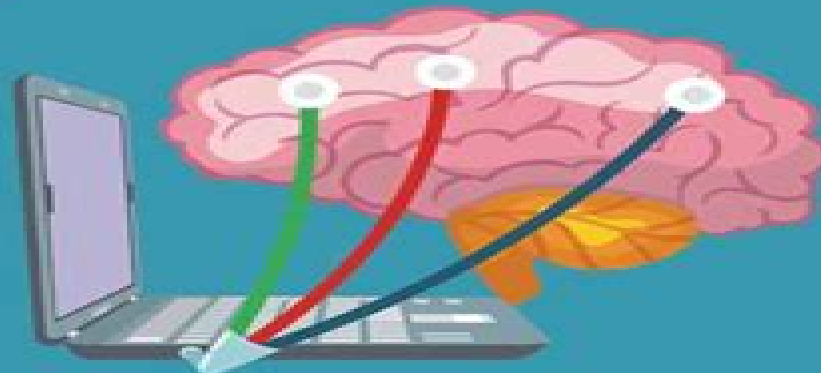
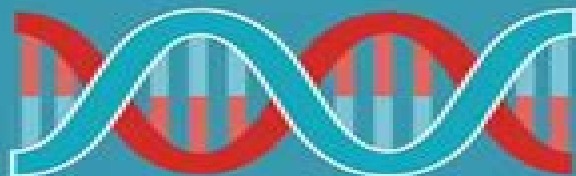
PRACTICAL/LABORATORY MANUAL

BIOLOGY



11

CLASS



Biology Practical Manual Class 11

Dr. J. P. Sharma



Biology Practical Manual Class 11:

Comprehensive Laboratory Manual In Biology XI Dr. J. P. Sharma, 2011-12 *Practical/Laboratory Manual Biology Class XI based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. Sunita Bhagia, Megha Bansal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards

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

Lab Manual Biology Class 11 Rajesh Kumar, Lab Manual *Biology Lab Manual Class XI | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.* Dr. Priyanka Gupta, Mr. Kaushalesh Dwivedi, 2022-08-04

With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the

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Table of Contents Biology Practical Manual Class 11

1. Understanding the eBook Biology Practical Manual Class 11
 - The Rise of Digital Reading Biology Practical Manual Class 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Practical Manual Class 11
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Practical Manual Class 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Practical Manual Class 11
 - Personalized Recommendations
 - Biology Practical Manual Class 11 User Reviews and Ratings
 - Biology Practical Manual Class 11 and Bestseller Lists
5. Accessing Biology Practical Manual Class 11 Free and Paid eBooks

- Biology Practical Manual Class 11 Public Domain eBooks
- Biology Practical Manual Class 11 eBook Subscription Services
- Biology Practical Manual Class 11 Budget-Friendly Options
- 6. Navigating Biology Practical Manual Class 11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Practical Manual Class 11 Compatibility with Devices
 - Biology Practical Manual Class 11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Practical Manual Class 11
 - Highlighting and Note-Taking Biology Practical Manual Class 11
 - Interactive Elements Biology Practical Manual Class 11
- 8. Staying Engaged with Biology Practical Manual Class 11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Practical Manual Class 11
- 9. Balancing eBooks and Physical Books Biology Practical Manual Class 11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Practical Manual Class 11
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Practical Manual Class 11
 - Setting Reading Goals Biology Practical Manual Class 11
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Practical Manual Class 11
 - Fact-Checking eBook Content of Biology Practical Manual Class 11
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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