

# NCERT CLASS 11 LAB MANUAL 2024-25

PHYSICS | CHEMISTRY | BIOLOGY | MATHS



# Class 11 Science Ncert Lab Manual

**Dr R K Gupta**



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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 Tradescantial 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
- 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
  - 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 take 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

**Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal** Dr. S. C. Rastogi , Er. Meera Goyal,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

**A Basic Laboratory Techniques**

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

**B Characterisation and Purification of Chemical Substances**

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory

technique 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method 3 To prepare crystals of pure potash alum  $\text{K}_2\text{SO}_4 \cdot \text{Al}_2(\text{SO}_4)_3 \cdot 24\text{H}_2\text{O}$  from the given impure sample 4 To prepare the pure crystals of copper sulphate from the given crude sample 5 To prepare pure crystals of benzoic acid from a given impure sample C Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid  $\text{CH}_3\text{COOH}$  of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion  $\text{CH}_3\text{COO}^-$  ion in case of weak acid  $\text{CH}_3\text{COOH}$  5 To determine the change in pH value of weak base  $\text{NH}_4\text{OH}$  in presence of a common ion  $\text{NH}_4^+$  D Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between  $\text{Co}(\text{H}_2\text{O})_6^{2+}$  and  $\text{Cl}^-$  ions by changing the concentrations of either of the ions E Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution F Qualitative Analysis 1 Analysis of Anions 2 Analysis of Cations G Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test INVESTIGATORY PROJECTS A Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions B Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method C Water Analysis 1 To test the hardness of different water samples D Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap E Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper F Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India), 1979 **Annual Report** National Council of Educational Research and Training (India), 1990 **Comprehensive Laboratory Manual In Biology XI** Dr. J. P. Sharma, 2011-12 **Vārshika**

**Riporța** India. Ministry of Human Resource Development, 1988      **Lab Manual-Physics-TB-11\_E-R1** Dr R K Gupta, Lab Manual Physics TB 11\_E R1      **Essential Problems of Indian Education** Basant P. Lulla, S. K. Murty, 1971      *Lab Manual Science Class 09* Neena Sinha, R. Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce      *New Quest*, 1979

## Whispering the Strategies of Language: An Psychological Journey through **Class 11 Science Ncert Lab Manual**

In a digitally-driven world wherever monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within phrases often move unheard. However, located within the pages of **Class 11 Science Ncert Lab Manual** a captivating fictional treasure pulsating with organic thoughts, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus invites visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the cloth of each word. Within the emotional depths of this moving review, we shall embark upon a genuine exploration of the book is primary styles, dissect their charming writing model, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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