

# **BIOLOGY**

## **LAB MANUAL**



**CLASS  
XII**

**A Complete  
Lab Activity Book**

- Introduction •**
- Lab Experiments •**
- Viva Voce •**



# **Cbse Class 12 Biology Practical Lab Manual Of Apc**

**Anthony S. Fauci**



## **Cbse Class 12 Biology Practical Lab Manual Of Apc:**

**EduGorilla's CBSE Class 12th Biology Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination** , Need an informative and well illustrated Lab Manual CBSE Class 12th Biology Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XII Biology Lab Manual has properly labeled high resolution diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 12th Biology Lab Manual for doing rough work

*Practical/Laboratory Manual Biology Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal* Dr. Sunita Bhagia ,Megha Bansal,2020-06-22

**A List of Experiments**

**1 Study pollen germination on a slide**

**2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them**

**3 Collect water from two different water bodies around you and study them for pH clarity and presence of any living organism**

**4 Study the presence of suspended particulate matter in air at 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 waterHolding 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

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EXPERIMENTS 1 To study pollen germination on slide 2 To study plant population density by quadrat method 3 To study plant population frequency by quadrat method 4 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 5 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 Symbolic Association in root nodules 11 Homologous and analogous organs PROJECTS 1 To study the different means of pollination 2 To study infectious diseases of humans 3 To study birth rate and death rate In your village or town 4 To study genetic disorders 5 To study malaria causes and disorders 6 To study causes symptoms and diagnosis of cancer 7 To study causes symptoms and diagnosis of AIDS 8 To study the applications and importance of Biotechnology 9 At the time of COVID 19

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