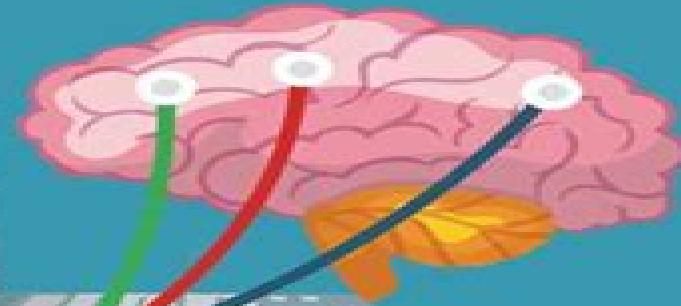
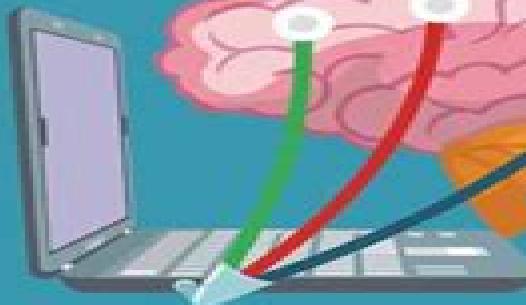
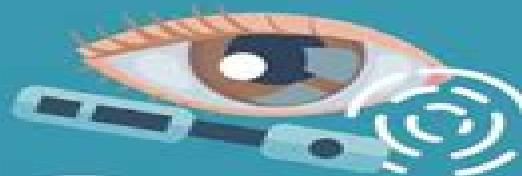




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Comprehensive Biology Activities Vol.I XI Dr. J. P. Sharma, 2010 **Annual Report** National Council of Educational Research and Training (India), 1990 **Practical/Laboratory Manual Biology Class XII based on NCERT guidelines by Dr. Sunita Bhagia & 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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Edugorilla Prep Experts,2022-07-05 Class 11 Biology Lab Manual will help students to enhance their practical knowledge and also help them discover the new joy of learning This complete lab activity book is written by Dr Priyanka Gupta which strictly follows the latest guidelines of CBSE and the pattern of NCERT and State Board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of the related experiments All the lab based experiments have

well labeled diagrams clearly demonstrating the details of the apparatus that are used the correct way of handling Laboratory apparatus and performing the experiments methodically The basic purpose of this Biology Lab Manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by Lab experiments after each chapter attached notebook available for jotting down all the essential information The aim of this Biology Lab Manual is to help Class 11 students of the various boards to prepare and understand the complex scientific concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual for improving their analytical experimental skills and learning abilities Class 11 Biology Lab Manual has been built up to inspire the young minds towards exploring their fascinating and mysterious surroundings *Lab Manual Biology Class 11* Rajesh Kumar, Lab Manual *Essential Problems of Indian Education* Basant P. Lulla,S. K. Murty,1971 **International Books in Print** ,1991

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