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**Mr. Gopi Chandra Gupta, Mr. Shivam
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NCERT Biology Practical/Lab Manual/Project Class 12 Dr. Sunita Bhagiya, Megha Bansal, 2024-09-29

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 what kind of problems did your acquaintance have to face when he got covid 10 To study **DRUG ABUSE** 11 Name the medicinal drugs which are banned all over the world 12 Describe the response of biotic factors to abiotic factors in the environment 13 Biodiversity and Conservation Practices in Indian Culture 14 What has been the effect on pollution control after covid 15 To study Management of sewage and waste materials 16 To study the role of micro organisms in human welfare 17 To study about harmful micro organisms

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Lab Manual Biology Class 11 Rajesh Kumar, Lab Manual **Practical/Laboratory Manual Science Class 10 based on NCERT Guidelines** Dr. J. P. Goel, ,Dr. S. C. Rastogi, ,Dr. Sunita Bhagia ,Er. Meera Goyal,2023-03-20 Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for difference angles of incidence 6 To study the dependence of potential difference V across a resistor on the current I passing through it and determine its resistance Also plotting a graph between V and I 7 To determine the equivalent resistance of two resistors when connected in series and parallel Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To studying the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a $ZnSO_4$ aq b $FeSO_4$ aq c $CuSO_4$ aq d $Al_2 SO_4$ 3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water Biology 14 To study stomata by preparing a temporary mount of a leaf peel 15 To show experimentally that carbon dioxide CO_2 is given out during aerobic respiration 16 To study A Binary fission in Amoeba and B Budding in yeast with the help of prepared slides 17 To identify the different parts of an embryo of a dicot seed pea gram or red kidney beans **Science Lab Manual Class X | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum.** Mr. Gopi Chandra Gupta,Mr. Shivam Tiwari,2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great

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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

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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 **Science Lab Manual**

Stage 10 Dr. Kamalkant,Dr. Bharati Khanna,Dr. Manmohan Singh,2011-01-01

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