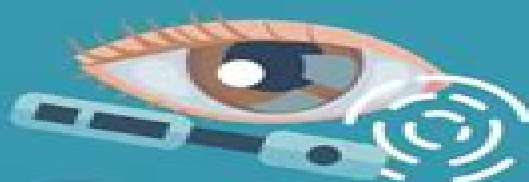


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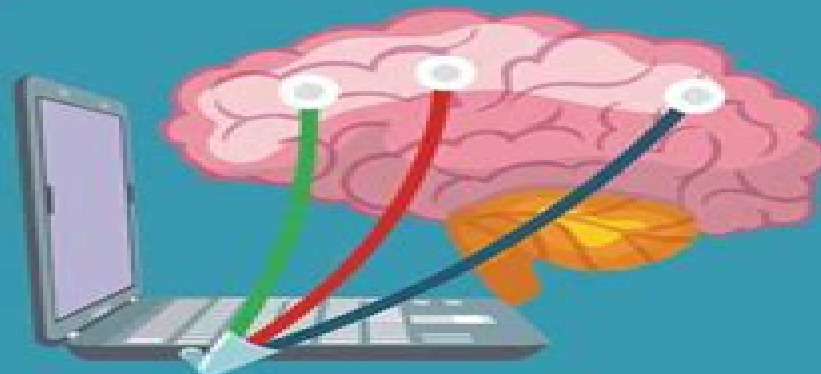
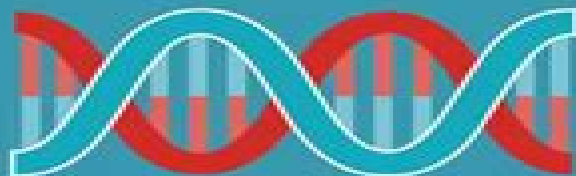
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Introduction

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

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 Globasa 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 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

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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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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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