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LABORATORY MANUAL BIOLOGY



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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 Tradescantia 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 Globosa Snail 11 Asterias Starfish 12 Scoliodon Dogfish Shark 13 Labeo Rohita Rohu 14 Rana Tigrina Frog 15 Hemidactylus Lizard 16 Columba Livia Pigeon 17 Oryctolagus 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 takes 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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Biology Laboratory Manual for Class XI Sarita Aggarwal, 1998 Biology, 1984 Chemical Abstracts, 1926

Research in Education, 1972 **Biological Abstracts** Jacob Richard Schramm, 1929 **Resources in Education**, 1979-10 Science Books & Films, 1989 **Catalogue of the Officers and Students of the University of Alabama for the Year** University of Alabama, 1909 **Manual of Standards and Suggestions on Organization for the High Schools of Ohio** Ohio. Department of Education, 1919 **Catalogue of the University of Alabama ... and Announcements** University of Alabama, 1907 **Manual, Programs, and Courses of Studies for Kentucky High Schools** Kentucky. State Board of Education, 1927 **The United States Catalog**, 1913 **The Indian National Bibliography** B. S. Kesavan, 2011-07 Bulletin No. 1-19 ... University of Illinois (Urbana-Champaign campus). College of Education, 1913 **Proceedings of the High School Conference of November 1910-November 1931**, 1910

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