

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR BOTANY SYLLABUS

UNIT	CHAPTER NO	TOPIC
	1	Diversity in the living world 1.1 What is living 1.2 Diversity in living world
	2	Biological classification 2.1 kingdom of Monera 2.2 kingdom of Protista 2.3 kingdom of Fungi 2.4 Kingdom Plantae 2.5 kingdom of Animalia 2.6 Six kingdom classification 2.7 Viruses, Viroid, Prions and Lichens
	3	Science of Plants- Botany 3.1 Origin 3.2 Development 3.3 Scope 3.4 Branches
	4	Plant kingdom 4.1 Algae 4.2 Bryophytes 4.3 Pteridophytes 4.4 Gymnosperms 4.6 Plant life cycles and Alternation of Generations
II	5	Morphology of flowering plants 5.4 The Inflorescence 5.5 The flower
III	7	Sexual Reproduction in Flowering Plants 7.1 Pre fertilization structures and events 7.2 Pollination 7.3 pollen pistil interaction 7.4 Double fertilization 7.5 Post fertilization structures and events 7.6 Special modes Apomixis, Parthenocarpy and Polyembryony

IV	8	Plant Systematics
	8.1	Systems, Types of classification
	8.2	Semi technical description of a typical flowering plant
	8.3	Description of some important families
	8.3.2	Solanaceae
	8.3.3	Liliaceae
V		Cell structure and Functions
	9	Cell- the Unit of Life
	10	Biomolecules
	11	Cell Cycle and Cell division
VI	12	INTERNAL ORGANISATION OF PLANTS
	12.3	Anatomy of Dicotyledonous and monocotyledonous Plants
	12.3.1	Dicotyledonous root
	12.3.2	Monocotyledonous root
	12.3.3	Dicotyledonous stem
	12.3.4	Monocotyledonous system
VII	13	Plant Ecology
	13.1	Introduction
	13.2	Plant Communities and Ecological Adaptations
