TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION: HYDERABAD

ANNUAL ACADEMIC PLAN 2023-2024

BOTANY I YEAR

Month /		Periods
Month/		
No. of	Topics to be covered/Unit – Test / Exams /	allotted
workin	Assignments / EAMCET/NEET classes to be	for
g days	conducted	each
&		topic
Periods		
June	Syllabus dictation and discussion of IPE	
24	Question paper along with scheme of	01
	valuation- weightage of marks to each chapter.	
	Unit-I DIVERSITY IN THE LIVING WORLD	
	CHAPTER-I	
	THE LIVING WORLD	0.4
	1.1 What is living ?	01
	1.2 Diversity in the living world	01
	1.3 Taxonomic categories	01
	1.4 Taxonomic aids.	01
	EAMCET / NEET	01
	CHAPTER-2	
	BIOLOGICAL CLSASSIFICATION	
	2.1 Kingdom Monera,	02
	2.2 Kingdom Protista,	02
	2.3 Kingdom Fungi	03
	2.4 Kingdom Plantae	
	2.5 Kingdom Animalia.	01
	2.6 Six kingdom classification	
	2.7 Viruses, Viroids, Prions and Lichens.	01
	Assignment -I	01
	IPASE 12-06-23 TO 20-06-23	
July	EAMCET / NEET	03
23	CHAPTER-3	03
	SCIENCE OF PLANTS - BOTANY	
	3.1 Origin	
	3.2 Development	01
	3.3 Scope of Botany	
	3.4 Branches of Botany	
	•	01
	EAMCET / NEET	01
	CHAPTER-4	
	PLANT KINGDOM	00
	4.1 Algae	02
	4.2 Bryophytes	02

	4.2.8:	0.1
	4.3 Pteridophytes	01
	4.4 Gymnosperms	02
	4.5 Angiosperms	01
	4.6 Plant Life cycles and Alternation of Generations	01
	EAMCET/NEET	02
	UNIT – II	
	STRUCTURAL ORGANISATION IN PLANTS.	
	MORPHOLOGY	
	CHAPTER-5 MORPHOLOGY OF FLOWERING OF	
	FLOWERING PLANTS	02
	5.1 The root	01
	ASSIGNMENT - II	01
	UNIT – TEST – I	0.3
	PRACTICALS:	02
	#Practical syllabus dictation	
	#Q.P.Model	
	#1.Study of the parts of compound microscope	
Aug	5.2 The stem	02
Aug 25		02
25	5.3 The leaf	02
	5.4 The inflorescence	
	5.5 The Flower	03
	5.6 The Fruit	02
	5.7 The Seed	01
	EAMCET/NEET	02
	UNIT-III	
	REPRODUCTION IN PLANTS	
	CHAPTER- 6	
	MODES OF REPRODUCTION	
	6.1Reproduction and its types \succ	02
	6.2 Asexual reproduction	
	6.3 Sexual reproduction	03
	6.4 An overview of angiosperm life cycle	01
	ASSIGNMENT - III	01
	UNIT - TEST - II	01
	PRACTICALS:	02
	#2.Identification and study of the Morphology of	02
	representative types of Bacteria, Fungi & different	
	, , , , , , , , , , , , , , , , , , , ,	
	plant groups.	0.7
SEPT	EAMCET/NEET	02
22	CHAPTER-7	
	SEXUAL REPRODUCTION IN FLOWERING	
	PLANTS	
	7.1Pre fertilization structures and events.	04
	7.2 Pollination	01
	, Jiiii dd Ji	

	#7.Study of the reproductive parts of commonly available flowers	02
	PRACTICALS:	02
	9.5.7 Cytoskeleton SSIGNMENT – V	01
	9.5.6 Ribosomes	01
	9.5.5 Plastids	01
	9.5.4 Mitochondria,	01
	9.5.3 Endomembrane system	01
	9.5.2 cell wall	01
	9.5.1cell membrane,	01
	9.5 Eukaryotic cell	OI
	9.4 Prokaryotic cell	01
	9.3 An over view of Cell	
	9.2 Cell theory	02
	9.1 What is a cell	
	Chapter-9 CELL: THE UNIT OF LIFE	
	UNIT-V CELL: STRUCTURE AND FUNCIONS	
	19-10-2023 TO 25-10-2023	
	FIRST TERM HOLIDAYS FROM	
	EAMCET/NEET	02
18	8.3.3 Liliaceae	02
ОСТ	Inflorescence 8.3.2 Solanaceae	02
	#6.Study and identification of different types of	
	#5.Study of modifications of Leaf	
	#4.Study of modifications of Stem	
	#3.Study of modifications of Root	02
	PRACTICALS:	
	ASSIGNMENT - IV UNIT - TEST - III	01 01
	8.3 1.Fabaceae	02
	plant	
	8.2 Semi-technical description of a typical flowering	02
	8.1 Systems, types of classification	01
	TAXONOMY OF ANGIOSPERMS	
	CHAPTER-8	
	UNIT- IV PLANT SYSTEMATICS	
	7.6 Apomixis, Parthenocarpy and polyembryony EAMCET/NEET	01
	7.5 Post fertilization structures and events	01
	7.4 Double fertilization	02 01
	7.3 Pollen pistil interaction	01

	#8.Calculation of % of pollen germination #9.Study of pollen tube growth on stigma #10.Study and identification of various stages of Female gametophyte development in the ovary of a flower. #11.Study and describing flowering plants of family Fabaceae	
NOV 24	9.5.8 Cilia and Flagella 9.5.9 Centrosome and centrioles	01
	9.5.10 Nucleus 9.5.11 Microbodies (Peroxysomes and glyoxysomes)	02
	EAMACET/NEET	02
	CHAPTER- 10: BIOMOLECULES.	
	10.1 How to analyse chemical composition	02
	10.2 Primary and secondary metabolities, 10.3 Bio-macromolecules	01 01
	10.4 Proteins	01
	10.5 Polysaccharides	01
	10.6 Nucleic acids	01
	10.7 Structure of proteins	01
	10.8 Nature of bond linking monomers in a polymer 10.9 Dynamic state of body constituents – concept of Metabolism	01 01
	10.10 Metabolic basis for living \\ 10.11 The living state	01
	HALF YEARLY EXAMS 20-11-2023 TO 25-11-2023	
	#12.Study and describing flowering plants of family Solanaceae	02
	#13.Study and describing flowering plants of family Liliaceae	
DEC 23	EAMCET/NEET CHAPTER 11	02
	CELL CYCLE AND CELL DIVISION 11.1 Cell cycle	01
	11.2 M.phase 11.3 Significance of Mitosis	02
	11.4 Meiosis 11.5 Significance of Meiosis EAMCET/NEET UNIT-VI	02 01 02
	INTERNAL ORGANISATION OF PLANTS	

	CHAPRER-12 HISTOLOGY AND ANATOMY OF FLOWERING	
	PLANTS 12.1 The tissues 12.2 The tissue systems	04 02
	12.3.1 Anatomy of Dicotyledonous Root 12.3.2 Anatomy of Monocotyledonous Root	02 01
	ASSIGNMENT - VI UNIT - TEST - IV	01 01
	PRACTICALS: #14.Preparation of Herbarium sheets of flowering plants	02
	#15.Study of tissues and diversity in shapes and sizes of plant cells	01
	#16. Study of anatomy of root of dicots #17. Study of anatomy of root of monocots	
JAN 23	12.3.3 Anatomy of Dicotyledonous Stem 12.3.4 Anatomy of Monocotyledonous Stem	02 01
	12.3.5 Anatomy of Dicotyledonous Leaf 12.3.6 Anatomy of Monocotyledonous Leaf	01 01 03
	12.4. Secondary Growth EAMCET/NEET UNIT-VII - PLANT ECOLOGY	01
	CHAPTER - 13 ECOLOGICAL ADAPTATIONS, SUCCESSION & ECOLOGICAL SERVICES	
	13.1 Introduction 13.2 .1 Hydrophytes	01
	13.2.2 Ecological adaptations in Hydrophytes 13.2.3 Mesophytes	01 01
	13.2.4 Xerophytes 13.2.5 Ecological adaptations in Xerophytes 13.3 Plant Succession	01 02 02
	13.4 Ecological Services/Ecosystem services EAMCET/NEET	01 02
	ASSIGNMENT - VII PRACTICALS:	01
	#18. Study of anatomy of Stem of dicots #19. Study of anatomy of Stem of monocots	02
	#20. Preparation and study of mitosis in onion root tips (To be demonstrated by teacher) #21. Study of stages of meiosis using permanent	
	slides SANKRANTI HOLIDAYS	
	13-01-2024 To 16-01-2024 (SECOND TERM HOLIDAYS)	

FEB 22	REVISION PRE-FINAL EXAMINATIONS	22
MAR 23	INTERMEDIATE PUBLIC EXAMINATIONS (THEORY) 1 ST WEEK OF MARCH LAST WORKING DAY 31-03-2024	23

Prepared by **T. SRINIVAS RAO** JL IN BOTANY GOVERNMENT JUNIOR COLLEGE IBRAHIMPATNAM, RANGA REDDY DIST