

Unit	Topic / Portion deleted for 2020-2021 academic session
I	Diversity of Living Organisms Chapter 1 : The Living World 1.2 Taxonomy, Systematics 1.6 Taxonomy Aids (Herbarium, Botanical gardens, Museum and Zoological Parks) 1.7 Key – A tool for identification of Plants & Animals Chapter 3 : Plant Kingdom 3.9 Angiosperms – The Flowering Plants (Evolutionary changes that led to their success, variations in angiosperms)
II	Structural Organisation in Animals and Plants Chapter 5 : Morphology of Flowering Plants 5.2 The Root System, (Types, functions & Modifications) 5.3 The Stem (Characteristic features, functions, modifications) 5.4 Leaf (Structure, Venation, simple & Compound leaves, phyllotaxy modification & functions) 5.7 Fruit 5.8 Seed Disruption of Families – Fabaceae Chapter 6 : Anatomy of Flowering Plants 6.3 Permanent Tissues 6.4 The Tissue System 6.8 Secondary Growth Chapter 7 : Structural Organisation in Animals Morphology and Anatomy of Animals (Earthworm, Cockroach, Frog)
IV	Plant Physiology Chapter 11 : Transport in Plants 11.1 Means of Transport 11.4 Water Movement up a Plant through xylem 11.5 Transpiration (3. Stomata and Transpiration – Role of Stomata in transpiration, Structure of Stomata, Mechanism of stomata Action) 11.6 Uptake and transport of Mineral Nutrients 11.7 Translocation of Mineral Ions 11.8 Phloem Transport 11.9 The Pressure Flow or Mass Flow Hypothesis Chapter 12 : Mineral Nutrition 12.2 Methods to study the mineral requirement of plants 12.3 Essential mineral elements 12.5 Role if macro and micronutrients 12.6 Deficiency symptoms of essential elements 12.7 Toxicity of micronutrients 12.11 Metabolism of Nitrogen

	3.10 Plant life cycle and Alternation of generation Chapter 4 : Animal Kingdom (Whole Chapter)	
II	Structural Organisation in Plants and Animals Chapter 5 : Morphology of Flowering Plants 5.1 Plant Morphology 5.5. Inflorescence 5.6 Flower 5.9 Semi-technical description of typical flowering plants. Selected Families of Dicotyledons (Family solanaceas, Family Liliaceae) Chapter 6 : Anatomy of Flowering Plants 6.1 The Tissues 6.2 Meristematic Tissues or Meristems 6.5 Anatomy of Root 6.6 Anatomy of Stem 6.7 Anatomy of Leaf Chapter 7 : Structural Organisation in Animals A. Animal Tissues (7.1 Epithelial Tissues 7.2 Connective Tissue 7.3 Muscular Tissue 7.4 Nervous Tissue)	10
III	Cell : Structure and Functions Chapter 8 Cell : The Unit of Life (Whole Chapter) Chapter 9 : Biomolecules (Whole Chapter) Chapter 10 : Cell Cycle and Cell Division (Whole Chapter)	17
IV	Plant Physiology Chapter 11 : Transport in Plants 11.2 Plant Water relations 11.3 Transport of Water 11.5 Transpiration (1. Sites of transpiration 2. Factors effecting transpiration) Chapter 12 : Mineral nutrition 12.1 Need for mineral Nutrition 12.4 Criteria of Essentiality of Elements 12.8 Mechanism of Absorption of Elements 12.9 Translocation of solutes 12.10 Sources of essential Elements for Plants Chapter 13 : Photosynthesis (Whole Chapter) Chapter 14 : Respiration in Plants (Whole Chapter)	18

	Chapter 15 : Plant Growth and Development 15.1 Growth 15.4 Plant Growth Regulator or Phytohormones 15.5 Discovery and Physiological Effects of Regulators 15.6 Interaction of Growth Hormones	
V	Human Physiology Chapter 16 : Digestion and Absorption 16.2 Digestion of Food Chapter 17 : Breathing and Exchange of Gases (Whole Chapter) Chapter 18 : Body Fluids and Circulation (Whole Chapter) Chapter 19 : Excretory Products and their Elimination (Whole Chapter) Chapter 20 : Locomotion and Movement 20.2 Locomotion in Humans 20.3 Muscular System in Humans Chapter 21 : Neural Control and Coordination 21.1 Neural (Nervous) System 21.2 Human Neural System 21.3 Neuron as Structural & Functional Unit of Neural System 21.4 Generation and Conduction of Nerve Impulse 21.5 Transmission of Impulses 21.6 Central Nervous System (CNS) 21.7 Peripheral Nervous System (PNS) 21.9 Sensory Reception and Processing (2. Mechanism of vision of Human Eye., Mechanism of hearing of human ear) Chapter 22 : Chemical Coordination and Integration (Whole chapter)	18

Weightage to form of questions :

Sl No.	Type of questions	No. of questions	Mark for each question	Total
1	Objective type	14	1	14
2	Short Answer I	07	2	14
3	Short Answer II	09	3	27
4	Long Answer	03	5	15
	Total	33		70

Sample Blue Print : Biology XI

Forms of Question/ Topic	Knowledge			Understanding			Application			HOTS			Evaluation			Total	
	Obj	SA I	SA II	LA	Obj	SA I	SA II	LA	Obj	SA I	SA II	LA	Obj	SA I	SA II		LA
Diversity in living world	1(1)	2(1)					3(1)		1(1)								7(4)
Structural Organisation in animals and plants	1(1)		3(1)	1(1)	2(1)			3(1)									10(5)
Cell : Structure and Functions	1(1)			5(1)	2(2)		3(1)		1(1)				3(1)				17(8)
Plant Physiology	1(1)		3(1)		1(1)	2(1)		5(1)					1(1)	2(1)			18(8)
Animal Physiology	1(1)		3(1)			2(1)			1(1)	2(1)	3(1)		1(1)				18(8)
Sub - total	5(5)	2(1)	9(3)	5(1)	4(4)	6(3)	6(2)	5(1)	3(3)	2(1)	9(3)		29(2)	2(1)	3(1)		70(33)
Total	21(10)			21(10)			14(7)			7(4)			7(2)				

Note : 1) The figures in the bracket denotes the number of questions

2) This is only a sample Blue Print. The question setter may develop his/her own Blue Print as per the question design

DELETED PORTIONS CLASS XI: PRACTICAL

A: List of Experiments

1. Description of Family Fabaceae; Types of root (Tap and adventitious); types of stem (Herbaceous and woody); leaf(arrangement, shape, venation, simple and compound)
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary)
3. Study of osmosis by potato osmometer.
4. Study of plasmolysis in epidermal peels (e.g.Rhoeo/lily leaves or flashy scale leaves of onion bulb).
5. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
6. Test for the presence of sugar, starch, proteins and ats in suitable plant and nimal materials.
7. Test for presence of urea in urine.
8. Test for presence of bile salts in urine.

B. Study/Observe of the following (spotting)

1. Tissues and diversity in shape and size of plant cells (palisade cells, guard cells, parenchyma, collenchyma, xylem and phloem) through temporary and permanent slides)
2. Different modifications in roots, stems and leaves.
3. Different types of inflorescence (cymose and racemose)
4. Human skeleton and different types of joints with the help of virtual images/model only

Weightage to content area of selected portion :

Unit	Topic / Portion Selected for 2020-2021 academic session
I	Study of distribution of stomata in the upper and lower surface of leaves.
II	<p>A. a) To detect the presence of sugar in wine / hood sample. b) To detect the presence of albumin in wine.</p> <p>B. a) Study and describe three locally available common following plants from Family solanaceae and Liliaceae) including dissection and display of floral whorls and other and ovary to show number of chambers.</p>
III	<p>A. Study / Observation / Experimental set – up a) Study parts of a compound microscope b) Study of imbibition in seeds/raisins c) Study of external morphology of cockroach through models d) Observation and comments on the experimental set up for showing (i) Anaerobic respiration (ii) Phototropism (iii) Apical bud removal (iv) Suction due to transpiration</p> <p>B. Temporary (Permanent Slides) a) Amoeba b) Hydra c) Study of mitosis in onion root tip cell and animal cells (grasshopper) from permanent slides</p> <p>C. Museum specimens of a) Study of the specimens and identification with reasons – Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, moss plant, fern, pine cone, one monocotyledonous plant and one dicotyledonous plant and one lichen. b) Study of specimens and identification with reasons. Liver fluke, Ascoms, leech, earthworm, prawn, silkworm, honey bee, snail, stasfish, shark, rohu, frog, lizard, pigeon and rabbit.</p>
IV	Viva Voce (based on experiments performed)