



BLOOM PUBLIC SCHOOL
C-8 Vasant Kunj New Delhi
SYLLABUS FOR THE SESSION 2021-22

Class: XI

Subject: Biology

MONTH	CHAPTERS (NCERT TEXT BOOK)	CONTENT (As per Rationalised Syllabus)
June	Ch.1:The Living World Ch.2:Biological Classification	Ch.1:The Living World What is living? Biodiversity; Need for classification; three domains of life; concept of species and taxonomical hierarchy; binomial nomenclature. Ch.2:Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids
July	Ch.3 :Plant Kingdom Ch.4: Animal Kingdom Unit Test-I	Ch.3 :Plant Kingdom Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta and Gymnospermae. (salient and distinguishing features and a few examples of each category) Ch.4: Animal Kingdom Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and distinguishing features of a few examples of each category). (No live animals or specimen should be displayed.)

<p>August</p>	<p>Ch.4: Animal Kingdom (cont'd)</p> <p>Ch.5: Morphology of Flowering Plants</p> <p>Ch.7: Structural Organisation in Animals</p>	<p>Ch.4: Animal Kingdom Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and distinguishing features of a few examples of each category). (No live animals or specimen should be displayed.)</p> <p>Ch.5: Morphology of Flowering Plants Morphology of inflorescence and flower, Description of 01 family: Solanaceae or Liliaceae (to be dealt along with the relevant experiments of the Practical Syllabus</p> <p>Ch.7: Structural Organisation in Animals Animal tissues.</p>
<p>September</p>	<p>Ch.8: Cell- The Unit of Life Ch.9: Biomolecules</p>	<p>Ch.8: Cell- The Unit of Life Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p> <p>Ch.9: Biomolecules Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties,</p>

		enzyme action.
October	<p>Ch.10: Cell Cycle and Cell Division</p> <p>Ch.13: Photosynthesis in Higher Plants</p> <p>Term-I Exam</p>	<p>Ch.10: Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance</p> <p>Ch.13: Photosynthesis in Higher Plants Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.</p>
November	<p>Ch.13: Photosynthesis in Higher Plants (cont'd)</p> <p>Ch. 14: Respiration in Plants</p> <p>Ch.15: Plant Growth and</p>	<p>Ch.13: Photosynthesis in Higher Plants Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.</p> <p>Ch. 14: Respiration in Plants Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.</p> <p>Ch.15: Plant Growth and Development</p>

	Development	Growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA.
December	<p>Ch. 17: Breathing and Exchange of gases</p> <p>Ch. 18: Body Fluids and Circulation</p> <p>Ch. 19: Excretory Products and their Elimination</p>	<p>Ch. 17: Breathing and Exchange of gases Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.</p> <p>Ch. 18: Body Fluids and Circulation Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.</p> <p>Ch. 19: Excretory Products and their Elimination Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.</p>

	Ch. 20: Locomotion and Movement	Ch. 20: Locomotion and Movement Skeletal muscle, contractile proteins and muscle contraction
January	Ch. 20: Locomotion and Movement(cont'd) Ch. 21: Neural Control and Coordination Unit Test II	Ch. 20: Locomotion and Movement Skeletal muscle, contractile proteins and muscle contraction Ch. 21: Neural Control and Coordination Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.
February	Ch. 22:Chemical Coordination and Integration	Ch. 22:Chemical Coordination and Integration Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease. Note: Diseases related to all the human physiological systems to be taught in brief
March	TERM-II EXAM	

ASSESSMENTS SYLLABUS

1. UNIT TEST I (July/August)

- Ch.1: The Living World
- Ch.2: Biological Classification
- Ch.3 : Plant Kingdom
- Ch.4: Animal Kingdom

2. TERM I EXAM (October)

- Ch.1: The Living World
- Ch.2: Biological Classification
- Ch.3 : Plant Kingdom
- Ch.4: Animal Kingdom
- Ch.5: Morphology of Flowering Plants
- Ch.7: Structural Organisation in Animals
- Ch.8: Cell- The Unit of Life
- Ch.9: Biomolecules

3 UNIT TEST II (January)

- Ch.10: Cell Cycle and Cell Division
- Ch.13: Photosynthesis in Higher Plants
- Ch. 14: Respiration in Plants
- Ch.15: Plant Growth and Development

4 TERM II EXAM (March)

- Ch.10: Cell Cycle and Cell Division
- Ch.13: Photosynthesis in Higher Plants
- Ch. 14: Respiration in Plants
- Ch.15: Plant Growth and Development
- Ch. 17: Breathing and Exchange of gases
- Ch. 18: Body Fluids and Circulation
- Ch. 19: Excretory Products and their Elimination
- Ch. 20: Locomotion and Movement
- Ch. 21: Neural Control and Coordination
- Ch. 22: Chemical Coordination and Integration

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