CBSE Class: 11 Biology Deleted Syllabus 2022-23

Chapter-1: The Living World

Old Syllabus

What is living?

Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.

Tools for study of taxonomy-museums, zoological parks, herbaria, botanical gardens.

New Syllabus

Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature.

Deleted Syllabus

What is living?

Tools for study of taxonomy-museums, zoological parks, herbaria, botanical gardens.

Chapter 1: The Living World	3–5 11–14 12 12 13 14 15	1.1 What is 'Living'? 1.4 Taxonomical Aids 1.4.2 Botanical Gardens 1.4.3 Museum 1.4.4 Zoological Parks Summary (Para 2) Question no. 10	DELETED

Chapter-2: Biological Classification

Old Syllabus

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids.

New Syllabus

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

No deletion

Chapter-3: Plant Kingdom

Old Syllabus

Classification of plants into major groups - Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae.

New Syllabus

Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae.

(Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)

Deleted Syllabus

Angiosperms, Plant Life Cycle and Alternation of Generations.

Chapter 3: Plant Kingdom	40–41 42–43 44 45	3.5 Angiosperms 3.6 Plant Life Cycles and Alternation of Generations Summary (Para 5 and 6) Question no. 10	DELETED

Chapter-4: Animal Kingdom

Old Syllabus

Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category). (No live animals or specimen should be displayed.)

New Syllabus

Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and at a few examples of each category). (No live animals or specimen should be displayed.)

No Deletion

Chapter-5: Morphology of Flowering Plants

Old Syllabus

Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of families: **Fabaceae,** Solanaceae **and Liliaceae.**

New Syllabus

Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae.

Deletion

Description of families: Fabaceae and Liliaceae.

Chapter 5: Morphology of Flowering Plants	67–68 68–69 71 78–79 81 82–83	5.1.2 Modifications of Root 5.2.1 Modifications of Stem 5.3.4 Modifications of Leaves 5.9.1 Fabaceae 5.9.3 Liliaceae Question nos 1, 2, 6 (b) 8, 9, 12, 14	DELETED

Chapter-6: Anatomy of Flowering Plants

Old Syllabus

Anatomy and functions of tissue systems in dicots and monocots. **Secondary growth.**

New Syllabus

Anatomy and functions of tissue systems in dicots and monocots.

Deleted Syllabus

Secondary growth

Chapter-7: Structural Organisation in Animals

Old Syllabus

Animal tissues; Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of **Earthworm**, **Cockroach**, Frog.

New Syllabus

Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.

Deleted Syllabus

Animal tissues, Earthworm, Cockroach.

Chapter 7: Structural Organisation in Animals	100 101–102 102–103 104–105 105–106 106–111 106–107 107–108 111 111–112 113–115 120–121 121–122	7.1 Animal Tissues 7.1.1 Epithelial Tissue 7.1.2 Connective Tissue 7.1.3 Muscle Tissue 7.1.4 Neural Tissue 7.3 Earthworm 7.3.1 Morphology 7.3.2 Anatomy 7.4 Cockroach 7.4.1 Morphology 7.4.2 Anatomy Summary (Para 2, 3, 4) Question nos 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 (c)	DELETED

Unit-III Cell: Structure and Function

Chapter-8: Cell-The Unit of Life

Old Syllabus

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.

New Syllabus

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.

No Deletion

Chapter-9: Biomolecules

Old Syllabus

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action. **Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State.**

New Syllabus

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action.

(Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State)

Deleted Syllabus

Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents – Concept of Metabolism, Metabolic Basis of Living, The Living State.

Chapter 9: Biomolecules	151 152 153 160–161	9.8 Nature of Bond Linking Monomers in a Polymer 9.9 Dynamic State of Body Constituents—Concept of Metabolism 9.10 Metabolic Basis for Living 9.11 The Living State Question nos 2, 3, 5, 8, 10	DELETED

Chapter-10: Cell Cycle and Cell Division

Old Syllabus

Cell cycle, mitosis, meiosis and their significance.

New Syllabus

Cell cycle, mitosis, meiosis and their significance.

No Deletion

Chapter 11: Transport in Plants	175–193	**Full Chapter Deleted**
Chapter 12: Mineral Nutrition	194–205	**Full Chapter Deleted**

Chapter-13: Photosynthesis in Higher Plants

Old Syllabus

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.

New Syllabus

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.

No Deletion

Chapter-14: Respiration in Plants

Old Syllabus

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.

New Syllabus

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.

No deletion

Chapter-15: Plant Growth and Development

Old Syllabus

Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; **seed dormancy; vernalisation; photoperiodism.**

New Syllabus

Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;

Deleted Syllabus

Seed dormancy; vernalisation; photoperiodism.

Chapter 15: **Plant Growth and Development**	251 252 252 254	15.5 Photoperiodism 15.6 Vernalisation 15.7 Seed Dormancy Question nos 3, 5, 8, 10	Deleted

Chapter-16: **Digestion and Absorption**	257-267	**Full Chapter Deleted**

Chapter-17: Breathing and Exchange of Gases

Old Syllabus

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.

New Syllabus

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.

No Deletion

Chapter-18: Body Fluids and Circulation

Old Syllabus

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.

New Syllabus

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.

No Deletion

Chapter-19: Excretory Products and their Elimination

Old Syllabus

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.

New Syllabus

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.

No Deletion

Chapter-20: Locomotion and Movement

Old Syllabus

Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

New Syllabus

Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

No Deletion

Chapter-21: Neural Control and Coordination

Old Syllabus

Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse; **reflex action; sensory perception; sense organs; elementary structure and functions of eye and ear**

New Syllabus

Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.

Deleted Syllabus

Reflex action; sensory perception; sense organs; elementary structure and functions of eye and ear

Chapter 21: Neural Control and Coordination	322	21.5 Reflex Action and Reflex Arc	
	322	21.6 Sensory Reception and Processing	DELETED
	322–323	21.6.1 Eye	
	323	21.6.1.1 Parts of an Eye	
	323–324	21.6.1.2 Mechanism of Vision	
	324–326	21.6.2 The Ear	
	327	21.6.2.1 Mechanism of Hearing	
	328	Summary (para 3 and 4)	DELETED
	329–330	Question nos 1 (b, c), 2 (c), 4, (c, d), 5 (e, f, g, h), 6 (b, c), 7, 8 (b, c), 9 (c), 10 (a), 11, 12 (c, d)	

Chapter-22: Chemical Coordination and Integration

Old Syllabus

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.

New Syllabus

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 goitre, diabetes, Addison's disease.
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