



## BOTANY UPDATED NEET 2024 SYLLABUS

SL.NO	CHAPTER NAME	CURRENT SYLLUBUS		DELETED TOPICS IF ANY
		TOPICS	ADDED TOPICS IF ANY	
1	Biological Classification	* Five kingdom classification * Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids	NIL	NIL
2	Plant Kingdom	Salient features and classification of plants into major groups- * Algae * Bryophytes * Pteridophytes * Gymnosperms	NIL	* Angiosperms
3	Morphology of Floering Plants	* Root * Stem * Leaf * Inllorescence- cymose and recemose * Flower * Fruit * Seed * Family - Fabaceae (Legumiosceae)	Family - Malvaceae, Cruciferae, Compositae, Graminae	* Solanaceae * Liliaceae
4	Anatomy of Flowering Plants	* Tissues (Simple Tissues & Complex Tissues) * Root * Stem * Leaf	NIL	* Secondary growth
5	Cell: The Unit of Life	* Cell theory * Structure of prokaryotic and eukaryotic cell * 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, micro bodies, Cytoskeleton, cilia, flagella, centrioles (ultra structure and function), Nucleus- nuclear membrane, chromatin, nucleolus.	NIL	NIL
6	Cell Cycle and Cell Division	* Cell cycle * Mitosis * Meiosis * Significance of both mitosis and meiosis	NIL	NIL



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7	Photosynthesis in Higher Plants	<ul style="list-style-type: none"><li>* Photosynthesis as a means of Autotrophic nutrition.</li><li>* Site of photosynthesis</li><li>* Pigments involved in Photosynthesis</li><li>* Photochemical and biosynthetic phases</li><li>* Cyclic and non cyclic photophosphorylation</li><li>* Chemiosmotic hypothesis</li><li>* Photorespiration C3 and C4 pathways</li><li>* Factors affecting photosynthesis.</li></ul>	NIL	NIL
8	Respiration in Plants	<ul style="list-style-type: none"><li>* Cellular respiration-glycolysis</li><li>* Fermentation (anaerobic)</li><li>* TCA cycle</li><li>* Electron transport system</li><li>* Number of ATP molecules generated</li><li>* Amphibolic pathways</li><li>* Respiratory quotient</li></ul>	NIL	NIL
9	Plant Growth and Development	<ul style="list-style-type: none"><li>* Seed germination</li><li>* Phases of plant growth</li><li>* Plant growth rate</li><li>* Conditions of growth</li><li>* Differentiation, dedifferentiation and redifferentiation</li><li>* Sequence of developmental process in a plant cell</li><li>* Growth regulators (auxin, gibberellin, cytokinin, ethylene, ABA)</li></ul>	NIL	NIL
10	Transport in Plants		<b>DELETED</b>	
11	Mineral Nutrition		<b>DELETED</b>	
12	Reproduction in Organisms		<b>DELETED</b>	



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13	Sexual Reproduction in Flowering Plants	<ul style="list-style-type: none"> <li>* Flower structure</li> <li>* Development of male and female gametophytes</li> <li>* Pollination-types, agencies and examples</li> <li>* Outbreeding devices</li> <li>* Pollen-Pistil interaction</li> <li>* Double fertilization, Post fertilization events</li> <li>* Development of endosperm and embryo</li> <li>* Development of seed and formation of fruit</li> <li>* Apomixis, parthenocarpy</li> <li>* Polyembryony</li> <li>* Significance of seed and fruit formation.</li> </ul>	NIL	NIL
14	Strategies for Enhancement in Food Production	<b>DELETED</b>		
15	Biotechnology: Principles and Processes	<ul style="list-style-type: none"> <li>* Genetic engineering</li> <li>* Recombinant DNA technology</li> </ul>	NIL	NIL
16	Biotechnology and its Applications	<ul style="list-style-type: none"> <li>* Application of Biotechnology in health and agriculture</li> <li>* Human insulin</li> <li>* Vaccine production</li> <li>* Gene therapy</li> <li>* Genetically modified organisms - Bt crops; Transgenic Animals</li> <li>* Biosafety issues-Biopiracy and patents</li> </ul>	NIL	NIL
17	Organisms and Populations	<ul style="list-style-type: none"> <li>* Organisms and environment</li> <li>* Population interactions- mutualism, competition, predation parasitism</li> <li>* Population attributes-growth, birth rate ad death rate, age distribution.</li> </ul>	NIL	NIL
18	Ecosystem	<ul style="list-style-type: none"> <li>* Patterns, components</li> <li>* Productivity aud decomposition</li> <li>* Energy flow</li> <li>* Pyramids of number</li> <li>* Biomass</li> <li>* Energy</li> </ul>	NIL	<ul style="list-style-type: none"> <li>* Ecological Succession</li> <li>* Nutrient cycling</li> <li>* Ecosystem services</li> </ul>
19	Environmental Issues	<b>DELETED</b>		