

Shri Amolak Jain Vidya Prasark Mandals
Smt. S.K. Gandhi Arts, Amolak Science, P.H. Gandhi Commerce College Kada
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Details of E-contents

Dr. P.B. Jadhavar

B.Sc. II Year

Plant Physiology-XII

Sr. No.	Topic	Link
1	Plant water relations:	
	a) Diffusion, osmosis, plasmolysis and imbibition.	https://drive.google.com/file/d/109nO33wFsEAvUcsaqFK3C_sJ1sj-aKFu/view?usp=sharing
	b) Water absorption and ascent of sap (Transpiration pull theory).	https://drive.google.com/file/d/1xfL-4iX2r3HhuypQlzeaIooOpMzjf6Yy/view?usp=sharing
	c) Transpiration – Definition, types - cuticular, lenticular and stomatal, structure of stomata, mechanism of opening and closing of stomata (starch – sugar hypothesis).	https://drive.google.com/file/d/1jKyYyTGQZ3RzlaMrySoO086DV8ddqly_/view?usp=sharing
2	Mineral nutrition:	
	a) Macro and microelements: roles and deficiency symptoms of N, P, K, Mg, Ca, Fe, Zn, Bo, Mo.	https://drive.google.com/file/d/1m6Mg0_G5DD103l0qXF-gQ7PbC0Hn99Bk/view?usp=sharing
	b) Mineral uptake: passive (ion exchange theory) and active.	https://drive.google.com/file/d/1xfL-4iX2r3HhuypQlzeaIooOpMzjf6Yy/view?usp=sharing
3	Translocation of solutes: Mass flow hypothesis, protoplasmic streaming theory, Source and sink relationship	https://drive.google.com/file/d/1x0CqiC7YnzNfKvrh9CaLQHvjh1eX4Yen/view?usp=sharing
4	Enzymes : Chemical nature holoenzyme, apoenzyme, prosthetic group, cofactor and coenzyme, properties, nomenclature, classification based on type of reactions, mechanism of enzyme action.	https://drive.google.com/file/d/18uDMXQF7YAg3sA1hTzbPVnWNAEuqqS9w/view?usp=sharing
5	Growth: Definition, Phases of Growth, Sigmoid growth curve.	https://drive.google.com/file/d/1pikWQNNupdoWujvmScEcb9lhUF-WVJXG/view?usp=sharing

6	Growth regulators: Discovery, structure, roles and practical applications of Auxins, Gibberellins, Cytokinins, Absciscic acid and Ethylene.	https://drive.google.com/file/d/1vxv7znfJZ6Kp4GXweeaMEcRME_mBhJMO/view?usp=sharing
8	Photosynthesis: Definition, ultrastructure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), photophosphorylation – cyclic and non cyclic, Z-scheme; Dark reactions - C3, C4 and CAM pathways.	https://drive.google.com/file/d/1KV_DkcUueNbT0IAIJhNZwaQoquTI65EQ/view?usp=sharing
9	Respiration: Definition, Ultrastructure of mitochondria, types of respiration, Glycolysis, TCA Cycle, Electron transport system, alcoholic and lactic acid fermentation.	https://drive.google.com/file/d/1G3MUu3WwdjQReijAUSaUkaG3q-usZg5G/view?usp=sharing