

Crop Physiology



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Reviews

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(Ila Pfeffer IV)

CROP PHYSIOLOGY



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New India Publishing Agency, 2016. Hardcover. Book Condition: New. 1st Edition. Contents: 1. Preparation of solutions. 2. To demonstrate the phenomenon of osmosis using potato osmoscope. 3. To demonstrate the phenomenon of endosmosis and exosmosis by using grapes and raisins. 4. To demonstrate the process of diffusion. 5. Methods of measurement of water status and water saturation deficit in plant parts. 6. Estimation of water potential of plant tissue by Chardakovs method. 7. Estimation of photosynthetic pigment from plant leaves. 8. Measurement of absorption spectrum of chloroplastic pigments. 9. To demonstrate chlorophyll fluorescence. 10. Measurement of leaf area by graph paper method. 11. Estimation of stomatal index and stomatal frequency with replica method. 12. Demonstration of leaf anatomy or structure of C3 and C4 plants (demonstration by already prepared slides). 13. To demonstrate that water is lost from a living plant during transpiration. 14. To measure rate of transpiration of potted plant by gravimetric (lysimeter) method. 15. To measure the rate of transpiration by using Ganongs photometer. 16. To find out the relation between transpiration and absorption. 17. To demonstrate unequal transpiration by the two leaf surfaces from four leaf method. 18. To demonstrate that light and carbondioxide are essential for photosynthesis (molls half leaf experiment). 19. To demonstrate that O₂ is evolved during photosynthesis. 20. To demonstrate anaerobic respiration. 21. To demonstrate that oxygen is used up during respiration. 22. To determine respiratory quotient of different types of respiratory substrates. 23. To demonstrate the optimum conditions for seed germination. 24. Breaking of seed dormancy to facilitate germination. 25. Determination of the seeds viability by tetrazolium test. 26. To demonstrate the measurement of growth in plants with the help of arc auxanometer. 27. Growth analysis: calculation of growth parameters. 28. Yield estimation of Kharif crops. 29. Effect of ethylene on...



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