b) Briefly explain soil-plant-atmosphere continuum.

c) Explain the role of turgor pressure and transpiration pull in plants.

P.T.O.

(1+2+3) (2×6=12)



SECTION - C

Answer any six.

- 6. Explain sulfur metabolism.
- 7. Explain the physiological changes during seed germination.
- 8. Briefly explain photoperiodism.
- 9. Explain the physiological changes during seed maturation.
- 10. Briefly explain ion transport across the membranes.
- 11. What is photorespiration? Briefly explain its significance.
- 12. Give an account on the physico chemical properties of water.
- 13. Briefly explain Gibbs free energy concept.

 $(6 \times 3 = 18)$

SECTION - D

Answer any seven.

- 14. Cyanide resistant respiration
- 15. CAM pathway
- 16. Field capacity
- 17. Osmosis
- 18. Water absorption by halophytes
- 19. Facilitated diffusion
- 20. Cycling of nutrients
- 21. Stress resistance
- 22. Phytochrome

CENTRAL LIBRARY

SIR SYED COLLEGE

23. Senescence. $(7\times2=14)$

(/x2=14)