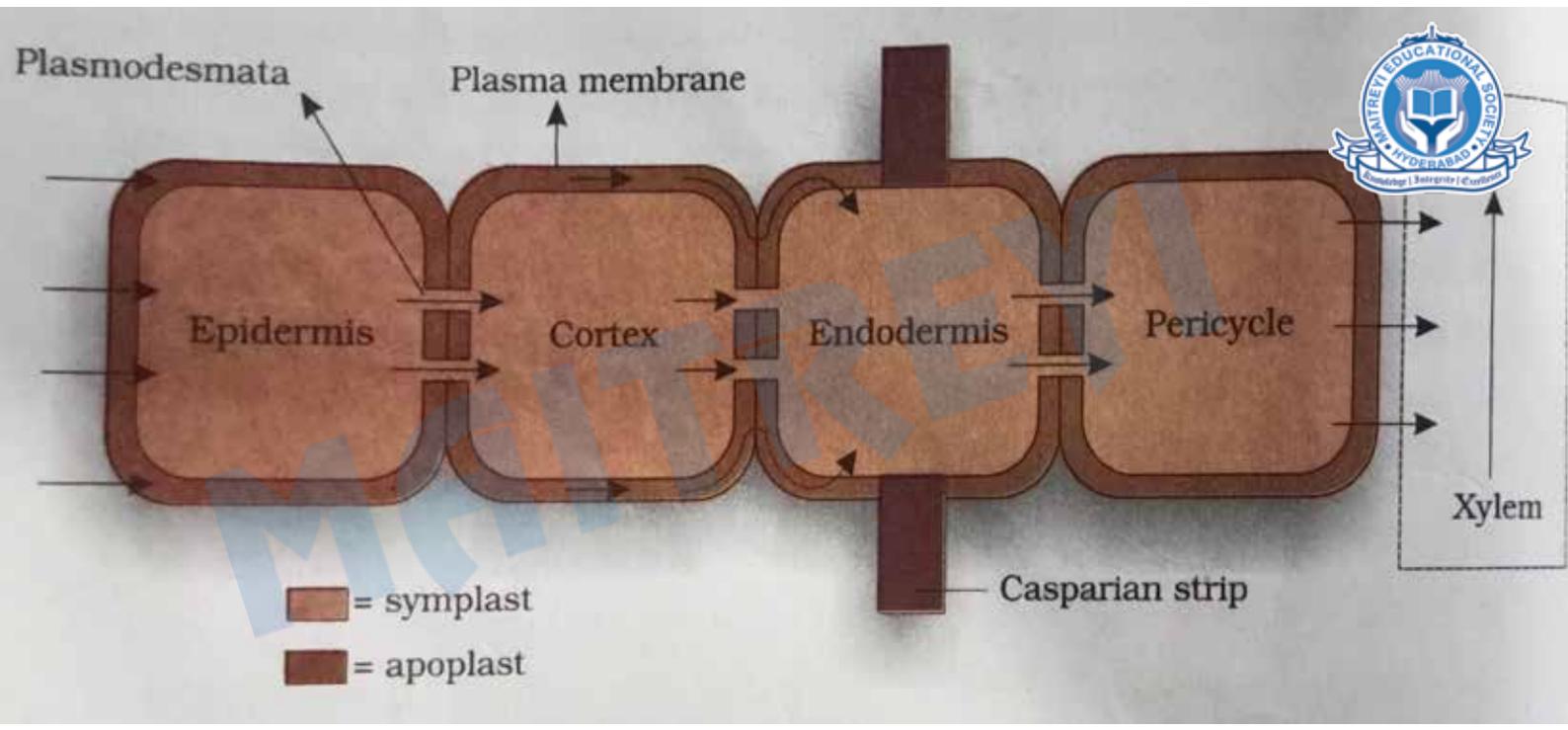


Figure 1.2 Facilitated diffusion



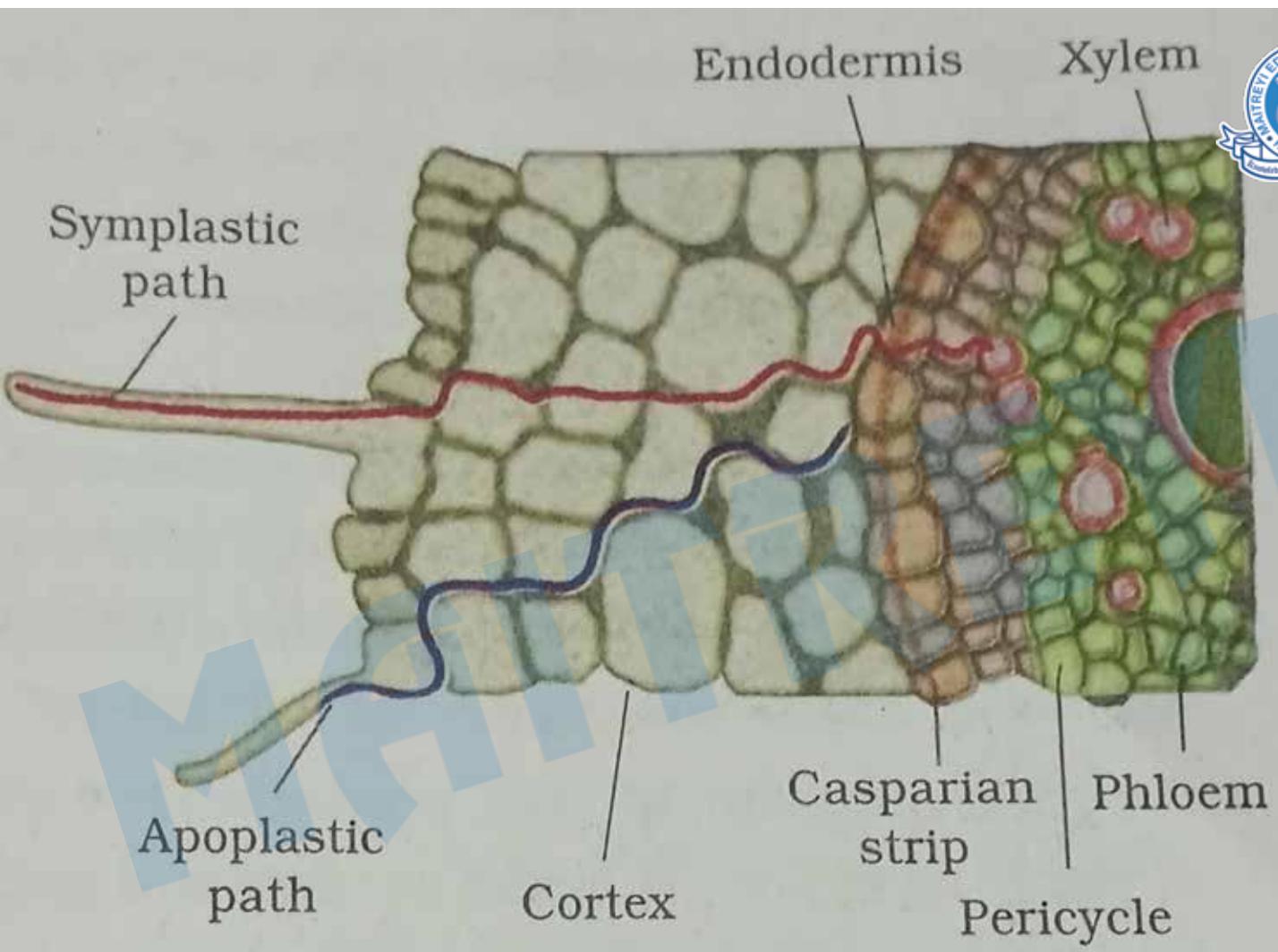


Figure 1.7 Symplastic and apoplastic pathways of water and ion absorption and movement in roots



Microfibrils

Guard cell

Stomatal aperture

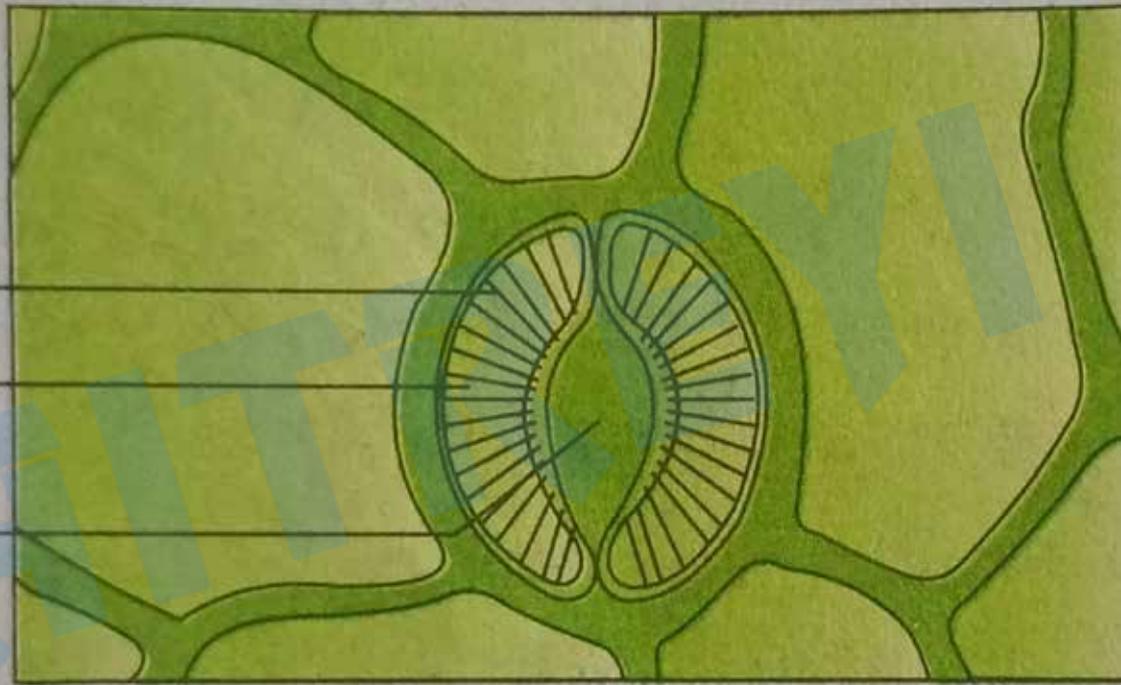


Figure 1.9 A stomatal aperture with guard cells

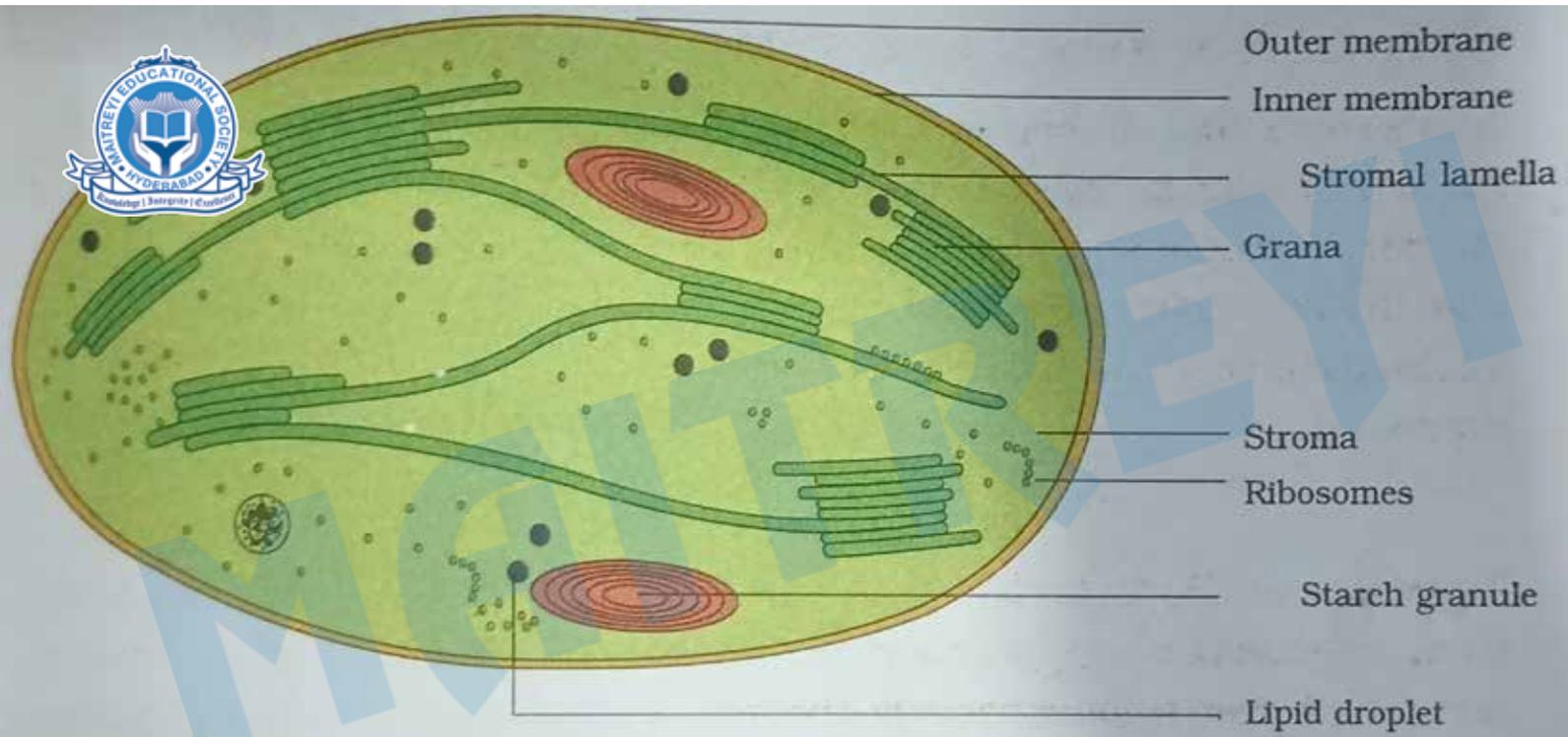


Figure 4.2 Diagrammatic representation of an electron micrograph of a section of chloroplast

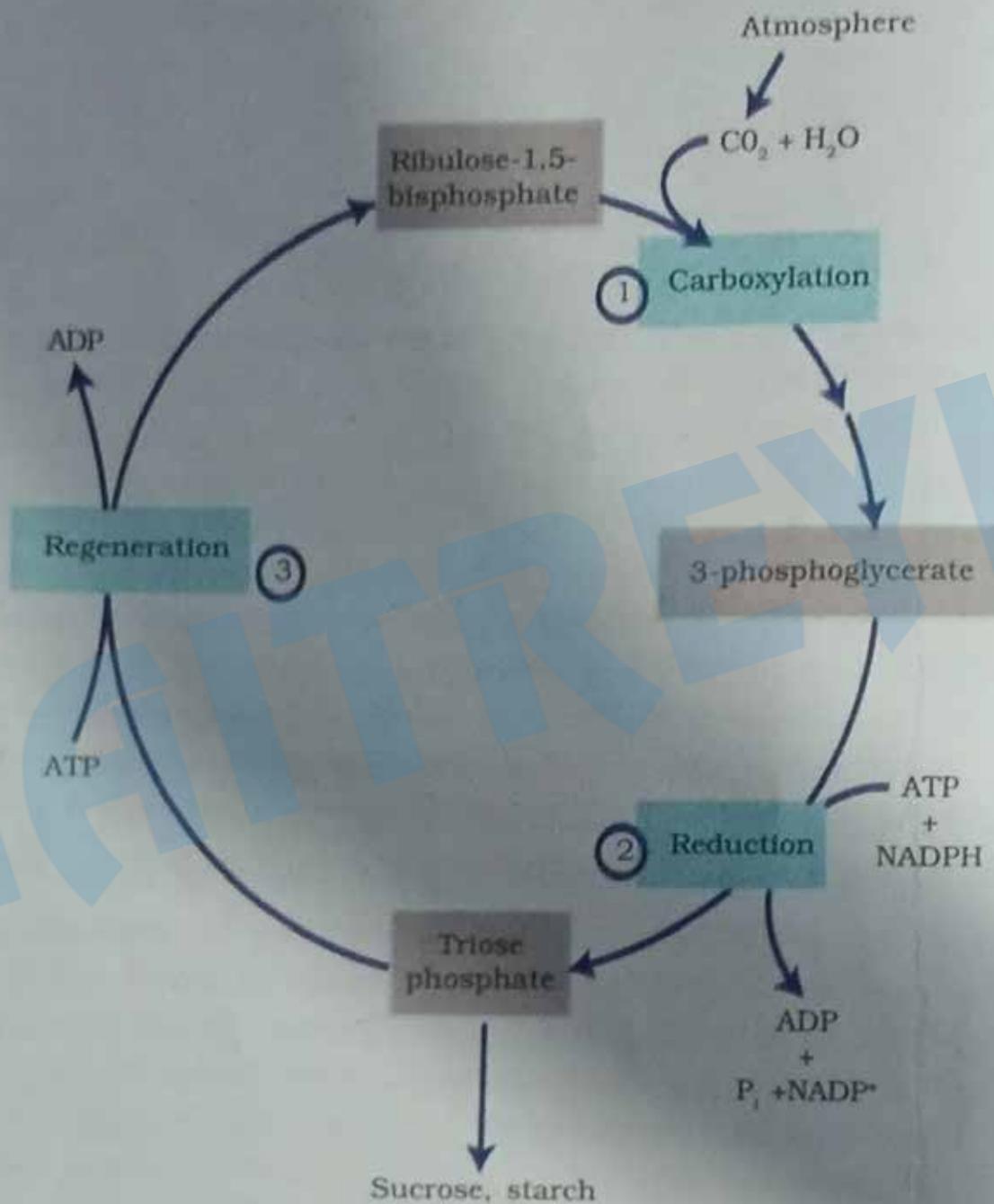
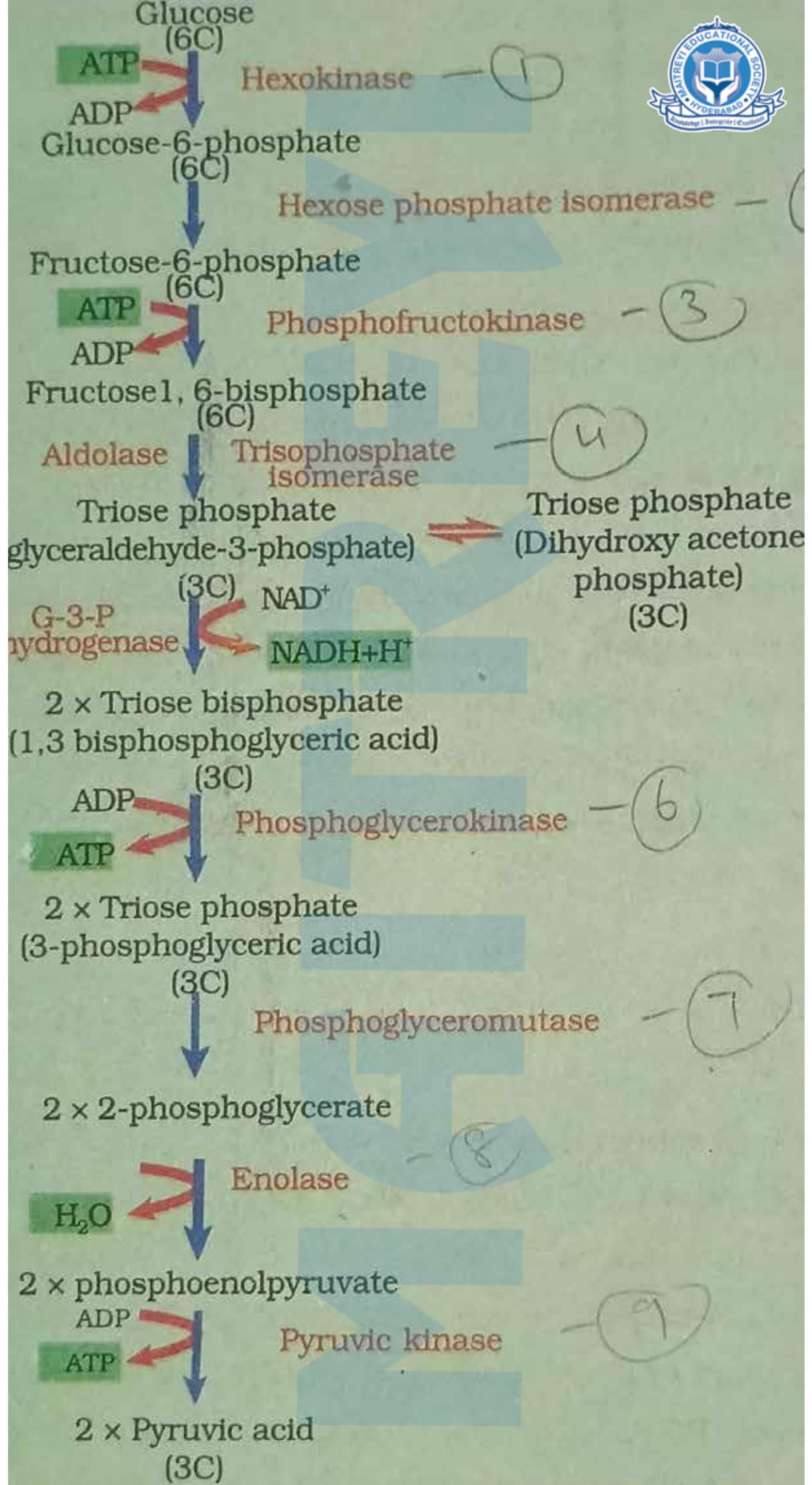


Figure 4.8 The Calvin cycle proceeds in three stages : (1) carboxylation, during which CO_2 combines with ribulose-1,5-bisphosphate; (2) reduction, during which carbohydrate is formed at the expense of the photochemically made ATP and NADPH; and (3) regeneration during which the CO_2 acceptor ribulose-1,5-bisphosphate is formed again so that the cycle continues.



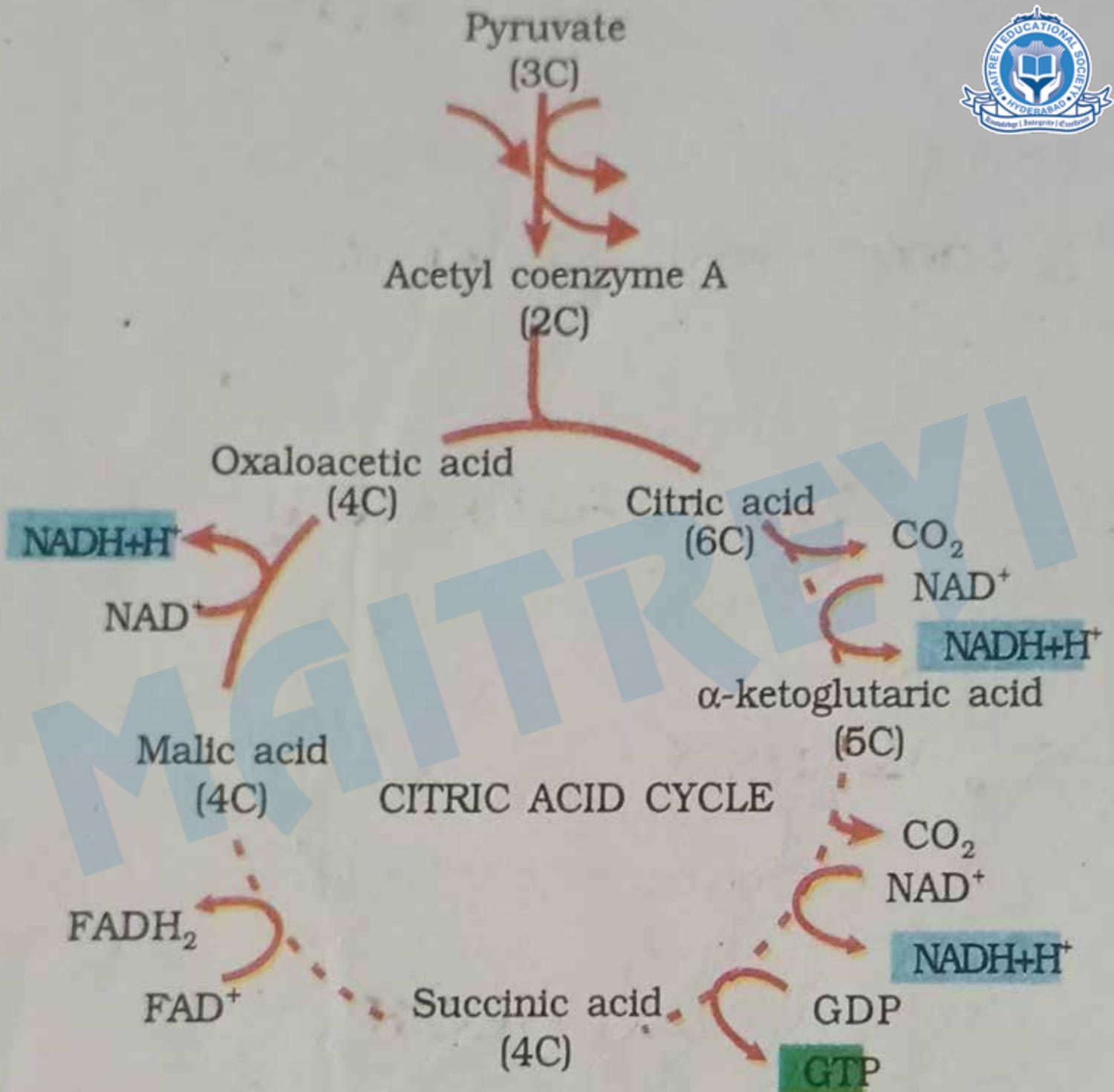


Figure 5.3 The Citric acid cycle

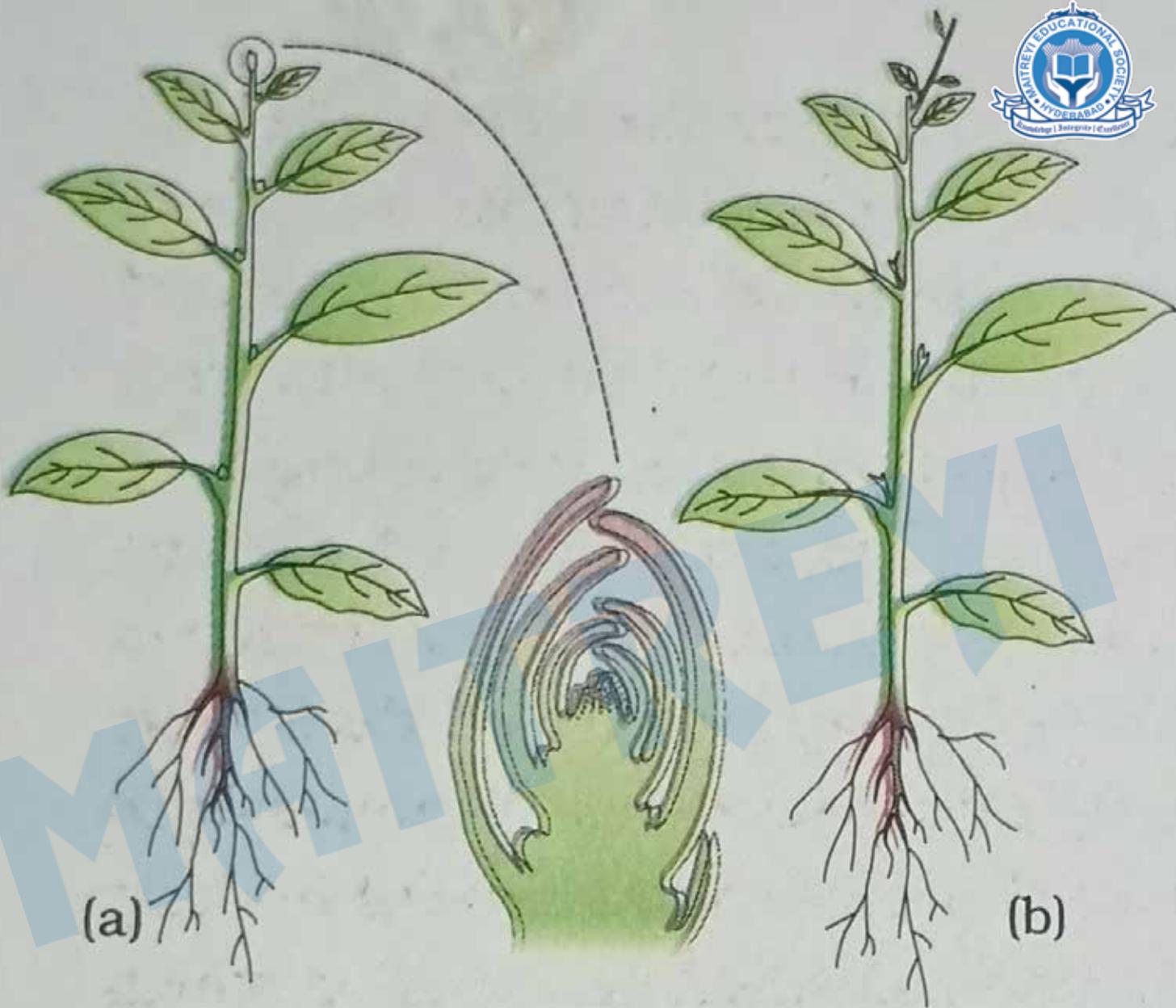


Figure 6.11 Apical dominance in plants :
(a) A plant with apical bud intact
(b) A plant with apical bud removed
Note the growth of lateral buds into branches after decapitation.



(a) Diplococci



(b) Streptococci



(c) Tetrads



(d) Sarcinae



(e) Staphylococci



Figure 7.1 Arrangements in Coccal Forms of Bacteria

(a) Monobacillus



(b) Diplobacilli



(c) Streptobacilli

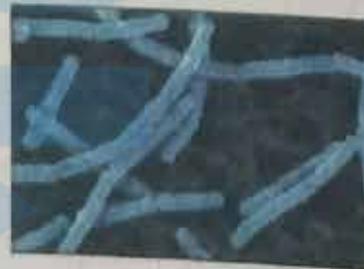


Figure 7.2 Arrangements of Bacillus forms

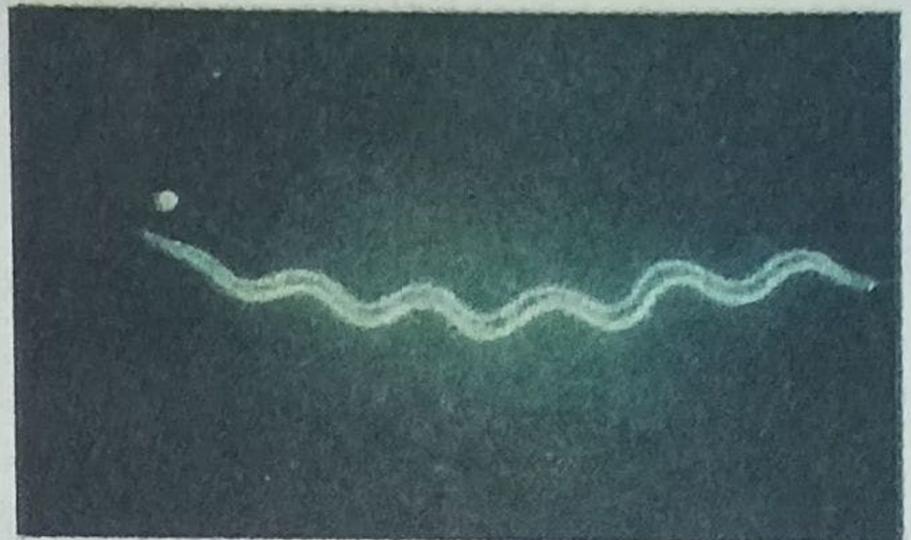
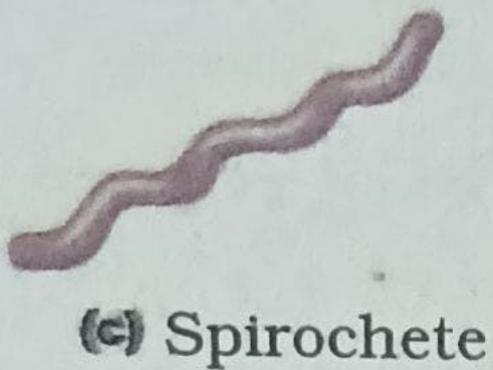
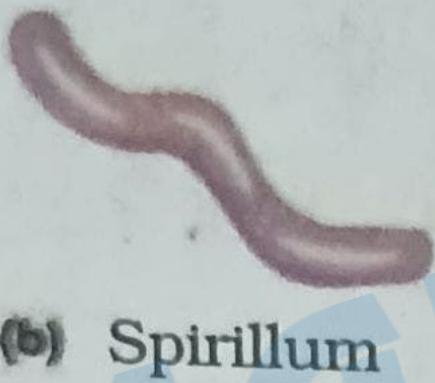
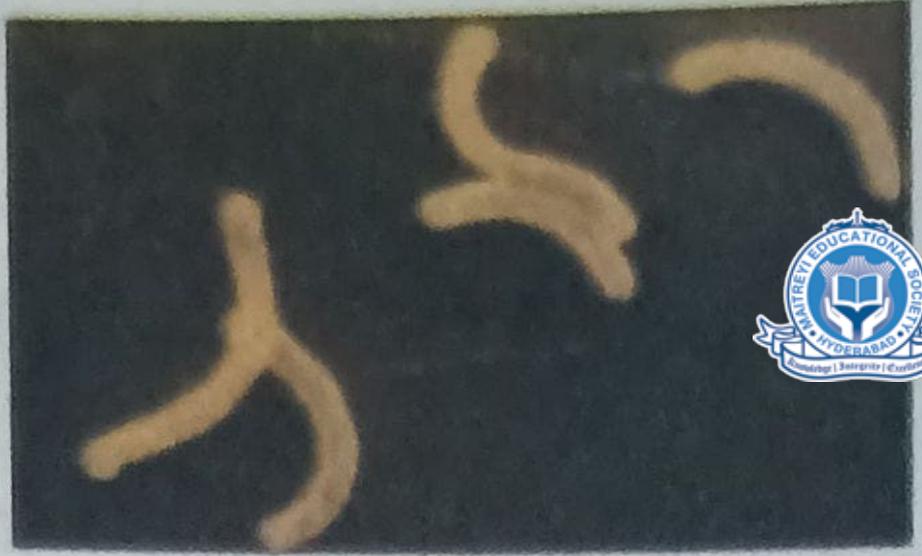
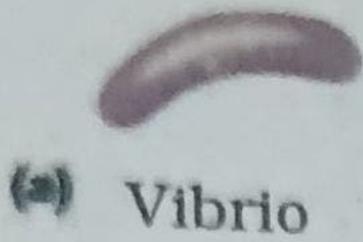


Figure 7.3 Spiral forms of Bacteria



Figure 7.4 Bacterial cells in conjugation

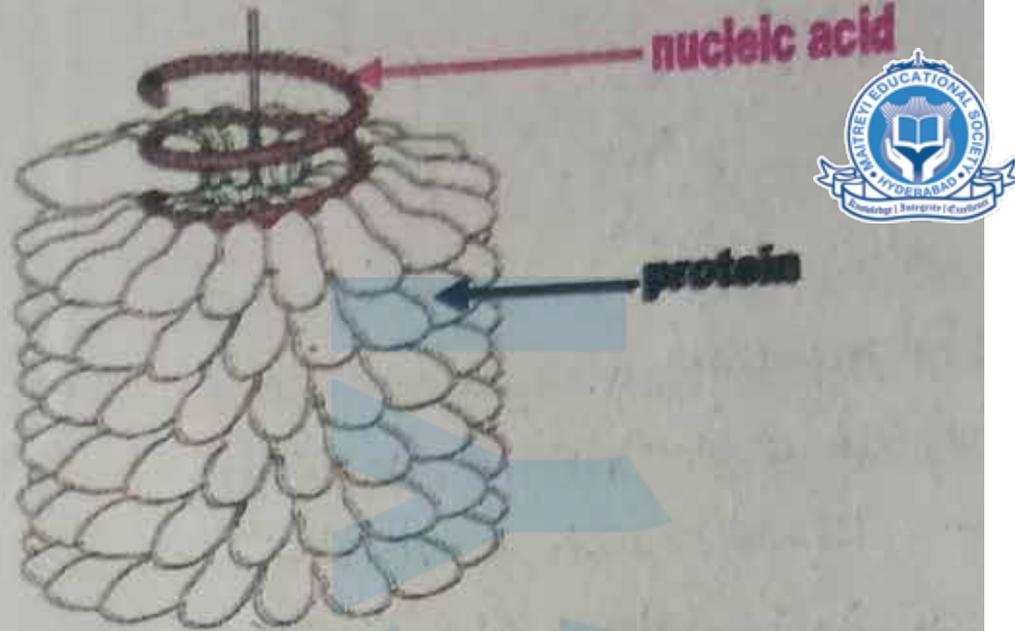


Figure 8.3 Tobacco Mosaic Virus – Helical Symmetry

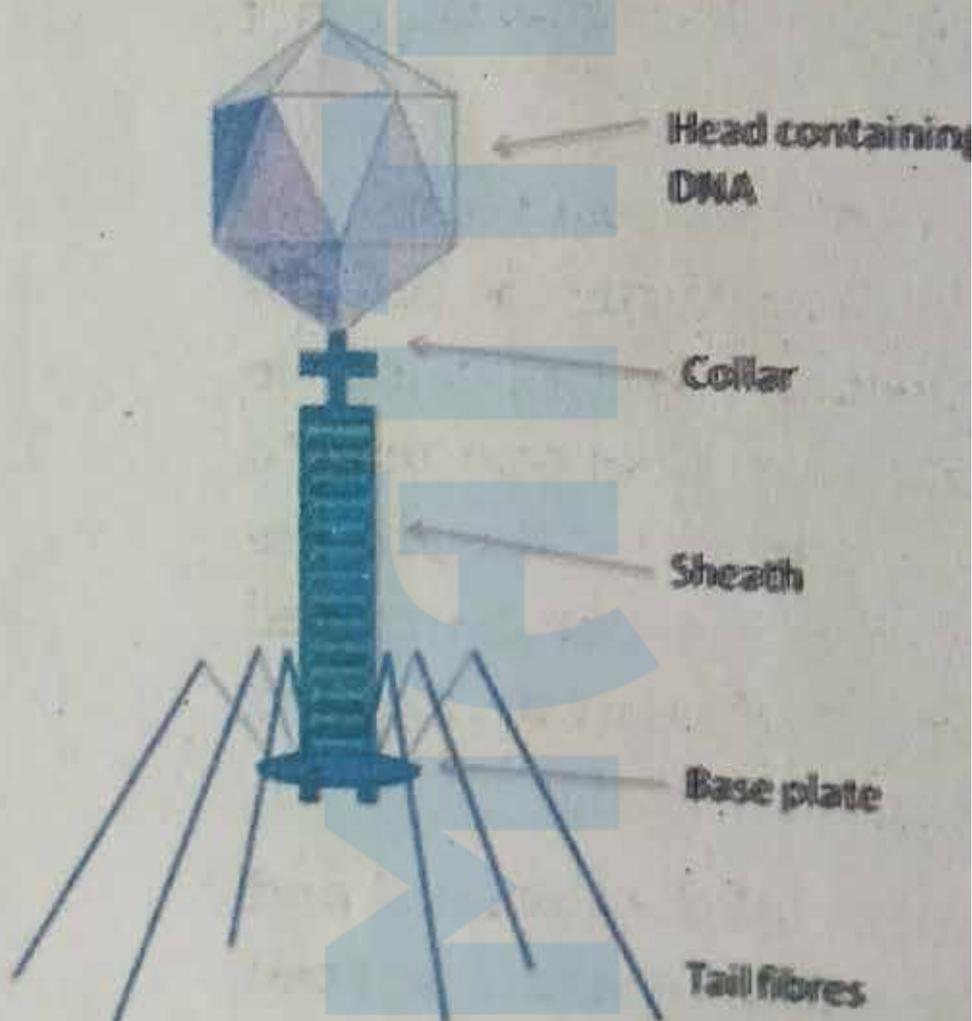


Figure 8.4 Bacteriophage- A complex virus

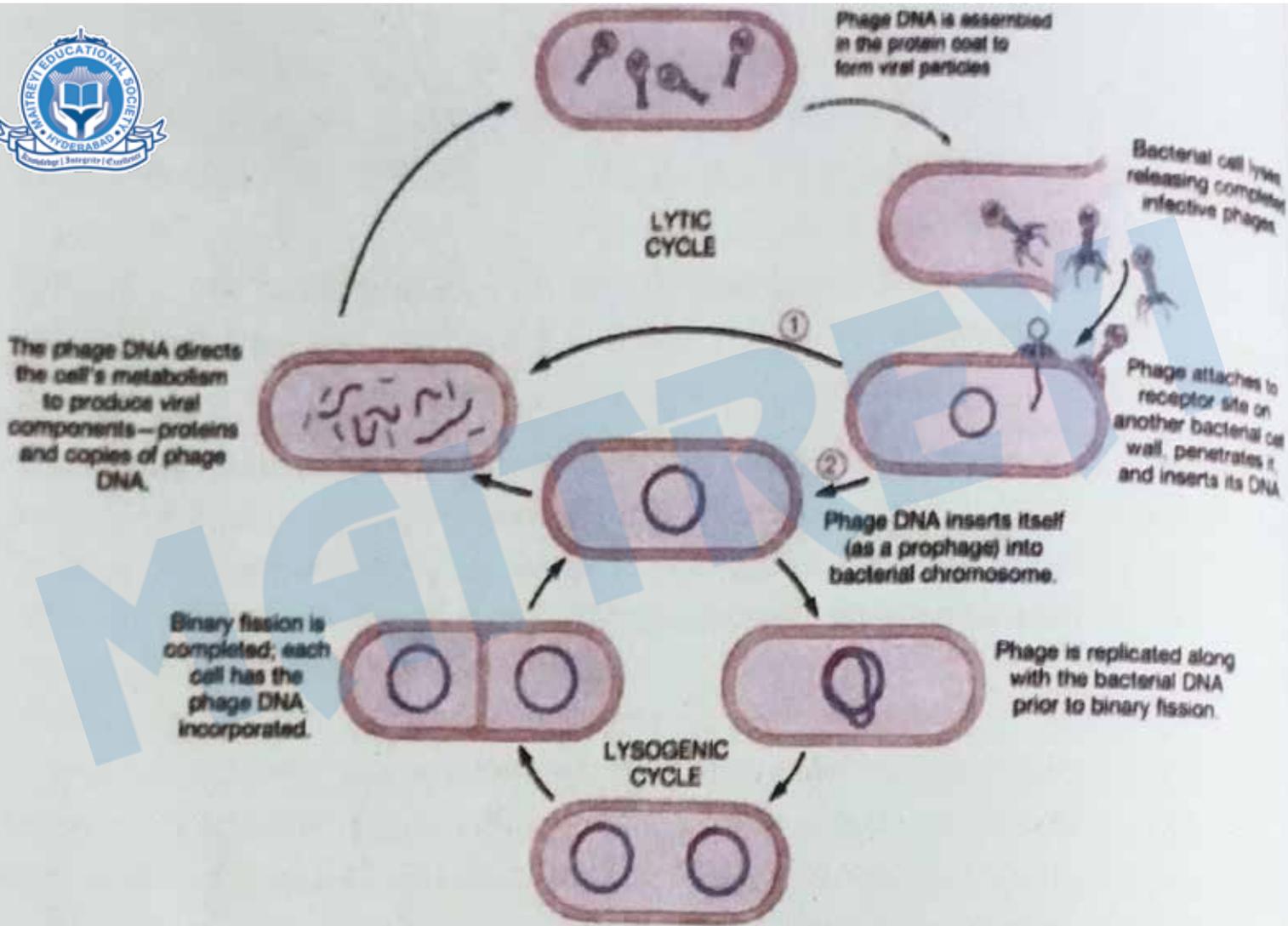


Figure 8.5 Viral multiplication cycles

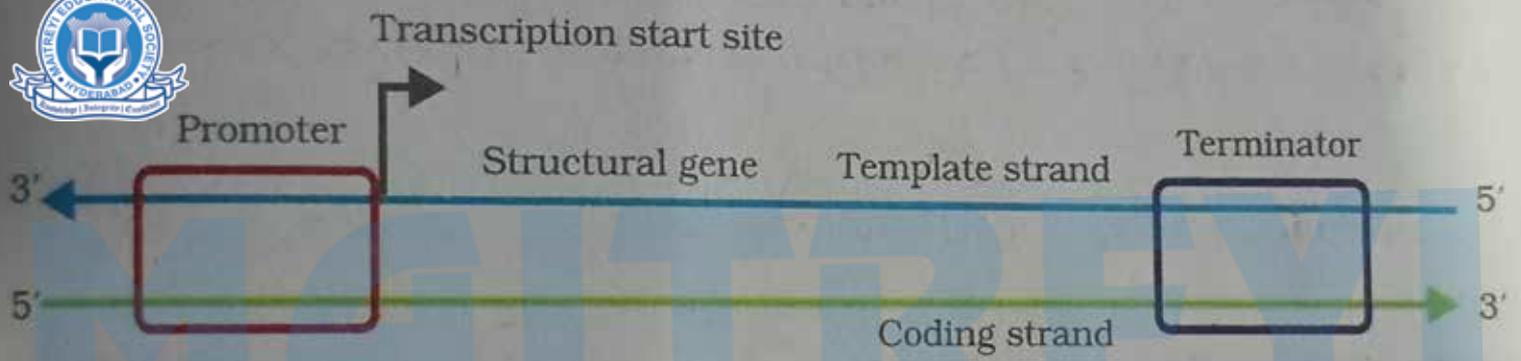


Figure 10.11 Schematic structure of a transcription unit

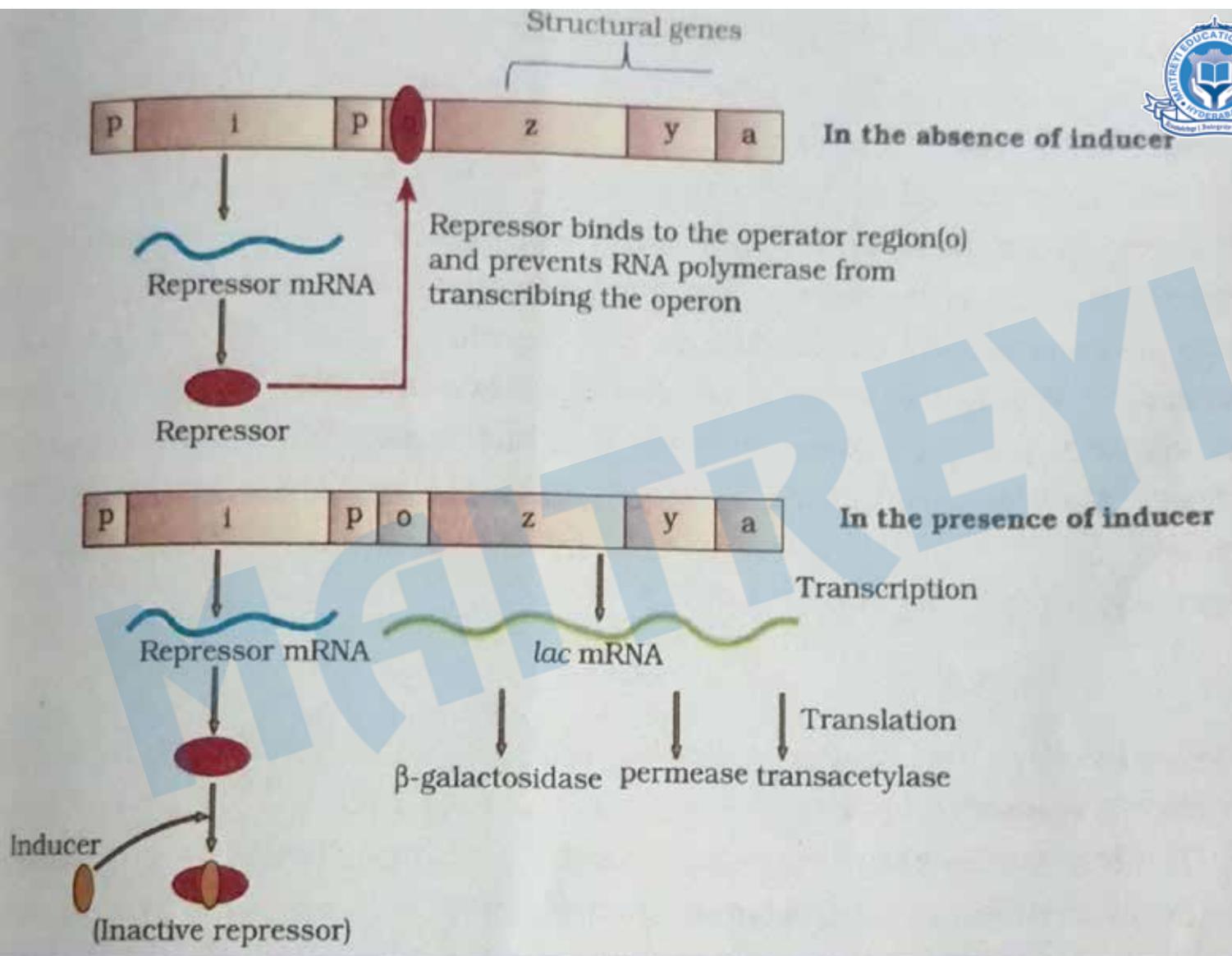


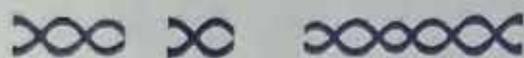
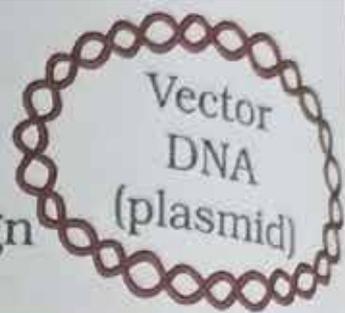
Figure 10.17 The *lac* Operon



Foreign DNA



Same restriction enzyme cutting both foreign DNA and vector DNA at specific point



Ligases join foreign DNA to plasmid



Transformation

E. coli



Cells divide



Figure 11.5 Diagrammatic representation of recombinant DNA technology