

Quadrant II – Transcript and Related Materials

Programme: Bachelor of Science (Third Year)

Subject: Botany

Paper Code: BOC - 106

Paper Title: Cell Biology and Plant Biochemistry

Unit: 02

Module Name: Other Cell Organelles-II

Module No: 24

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Glossary of terms/words:

- 1. Golgi apparatus:** It is a complex of vesicles and folded membranes within the cytoplasm of most eukaryotic cells, involved in secretion and intracellular transport.
- 2. Flattened Sac or Cisternae:** It is the simplest unit of the Golgi apparatus. It is central, flattened, plate-like or saucer-like closed compartments that are held in parallel bundles or stacks one above the other.
- 3. Tubules:** It is a complex array of associated vesicles and anastomosing tubules (30 to 50 nm diameter) surround the dictyosome and radiate from it.
- 4. Transitional vesicles:** They are a small membrane limited vesicles. It forms blebs from transitional ER to migrate. It converge to cis face of Golgi, where they coalesce to form new cisternae.
- 5. Secretory vesicles:** They are varied-sized membrane-limited vesicles. It is discharged from margins of cisternae of Golgi.
- 6. Clathrin-coated vesicles:** It is spherical protuberances, 50 µm in diameter & with a rough surface. It is found at the periphery of the organelle, usually at the ends of single tubules.

- 7. Cis-face: Cisternae at the convex end of the dictyosome comprise proximal, forming or cis-face.**
- 8. Trans-face: Cisternae at the concave end of the dictyosome comprise the distal, maturing or trans-face.**