

Vidya Bhawan Balika Vidyapeeth Lakhisarai

Arun Kumar Gupta

Class 9<sup>th</sup>

Subject : Biology

Date:- 27.04.21

## **CHAPTER –1**

### **THE FUNDAMENTAL UNIT OF LIFE**

#### **8. Vacuoles:**

Vacuoles are liquid/solid filled and membrane bound organelles.
In plant cells, vacuoles are large and permanent. In animal cells, vacuoles are small In size and temporary.
In mature plant cell, It occupies 90% space of cell volume.
Due to its size, other organelles, including nucleus shift towards plasma membrane.

#### **Function:**

- They help to maintain the osmotic pressure in a cell.
- They provide turgidity and rigidity to the plant cell.

#### **9. Peroxiomes:**

They are small and spherical organelles containing powerful oxidative enzymes.
They are bounded by a single membrane.
They are found in kidney and liver cells.

#### **Function:**

- They are specialized to carry out some oxidative reactions, such as detoxification or removal of toxic substances form cell.

