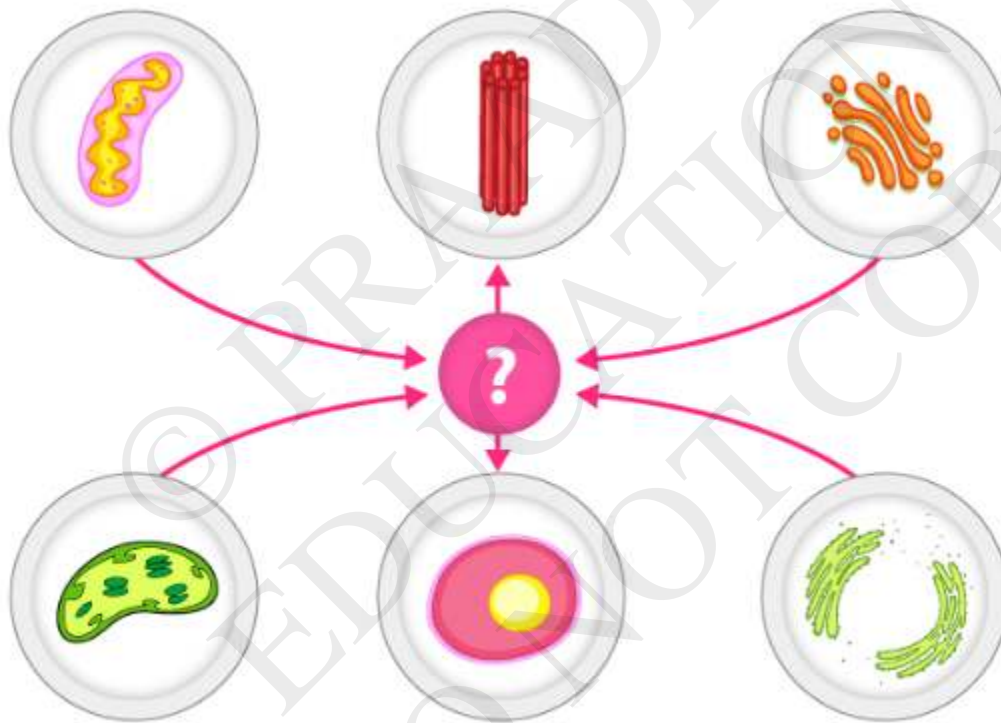


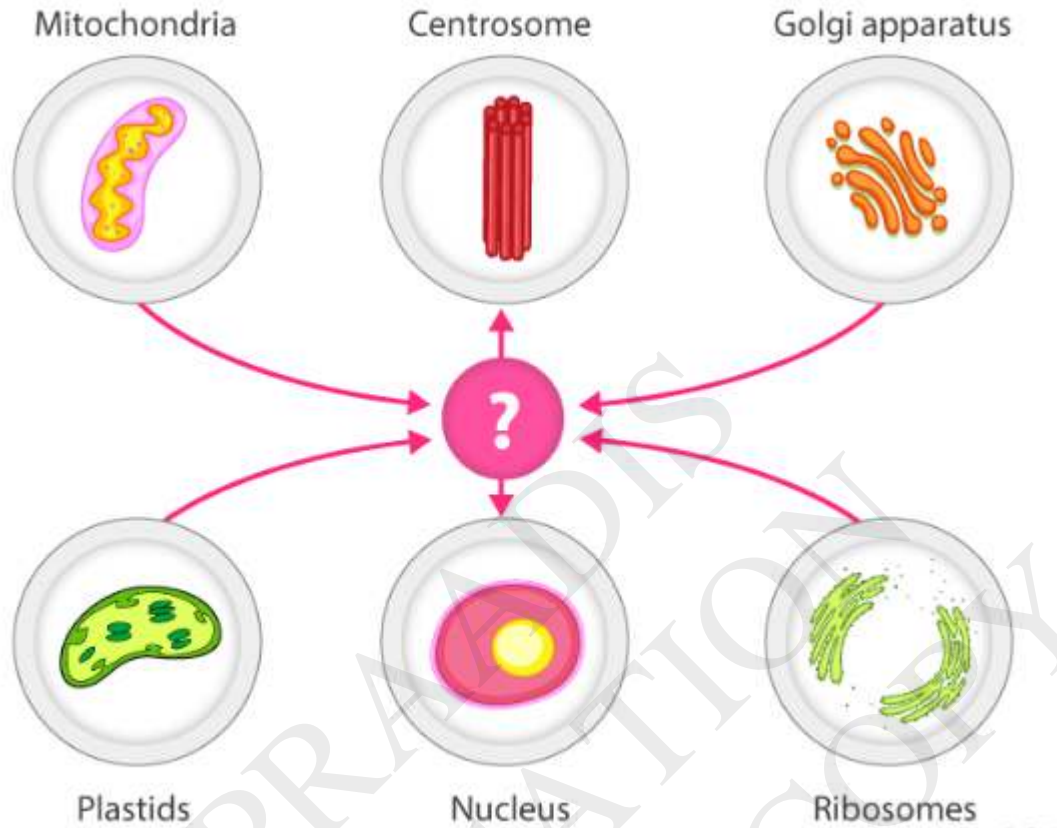
Chapter 1 – Cell – The Structural and Functional Unit of Life [For Revision Only]

Shown Below are some of the cell organelles.

Can you identify these?



Solution:-



The main characteristics of the given cells are,

1. Mitochondria,

- (a) It is of various shapes but usually sausage-like.
- (b) Double-walled; inner wall thrown into folds (cristae)
- (c) Have their own DNA (containing several genes)
- (d) Also contain their own ribosomes.

2. Centrosome (Animal cells only)

- (a) A region surrounding the centrioles, located near the nucleus.
- (b) Contains one or two centrioles
- (c) Centrioles are surrounded by microtubules.

3. Golgi apparatus (In animal cells called dictyosomes in plant cells)

- (a) Stacks of flattened membrane sacs.

(b) Consists of tubules, vesicles and vacuoles.

4. Plastids (Plant cells only)

(a) Several kinds, most common ones are chloroplasts containing the green pigment chlorophyll.

(b) Double membered, proteinaceous matrix, contains DNA.

(c) Disc-Like structures called thylakoids contain chlorophyll.

5. Nucleus

(a) The Largest cell organelle.

(b) Mostly spherical and dense.

(c) Nuclear membrane with pores to allow substances to enter and leave.

(d) Contains network of thread-like structures called chromatin fibres which contain DNA.

6. Ribosomes

(a) Small granules either scattered in the cytoplasm or attached to the outside of endoplasmic reticulum.

(b) Single-walled, dense, spherical bodies composed mainly of RNA.

Selina Solutions Concise Biology Class 10 Chapter 1 Cell – The Structural and Functional Unit of Life [For Revision Only]. A Few concepts discussed in this chapter are Cell shapes, the gross structure of the cell, the finer structure of the cell, microscopic examination of onion peel and the nucleus. Students are suggested to refer to Selina Solutions for quick revision before the exam.

List of subtopics covered in Selina Solutions Concise Biology Class 10 Chapter 1 Cell – The Structural and Functional Unit of Life [For Revision Only]

Number	Subtopic
1.1	Cells – A basic study in Biology
1.2	Cells – How many?
1.3	Cells – How small?
1.4	Cell shapes
1.5	Gross structure of cell – The three essential parts
1.6	Finer structure of cell – The organelles
1.7	Microscopic examination of onion peel
1.8	The Nucleus – Key to the life of a cell

Key Features of Selina Solutions Concise Biology Class 10 Chapter 1 Cell – The Structural and Functional Unit of Life [For Revision Only]

- Selina solutions help students to prepare for the class 10 examination easily.
- These Solutions with accurate answers help students in revision after completing the entire syllabus.
- Diagrams are used wherever necessary to help the students to understand the solutions better.
- Pointers are used which promotes easy learning.