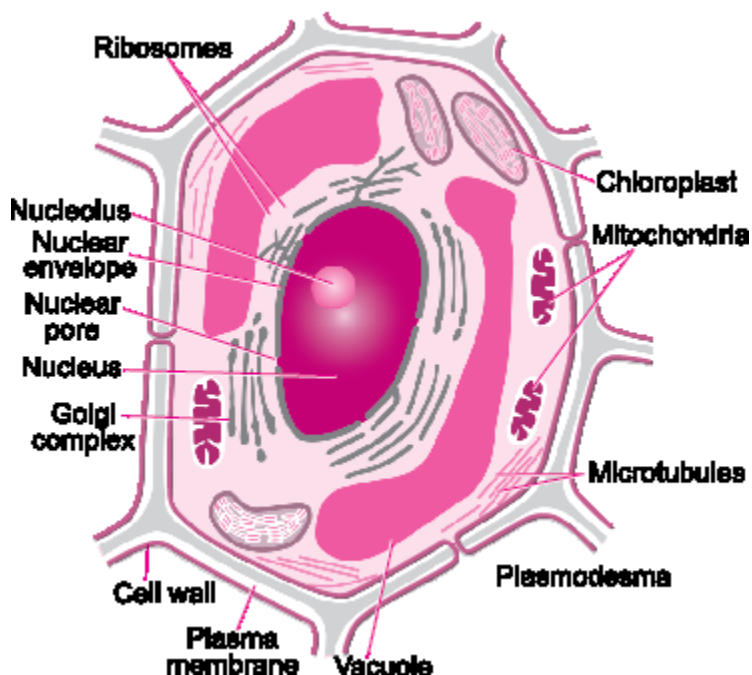


Short Answer Questions

Q. 1. Why a cell is called the structural and functional unit of living organisms?

Ans. Cell is called structural unit because it provides a shape to the body and all the life processes occurs inside the cell, so it is called functional unit of living organisms.

Q. 2. Observe the following diagram. [NCERT Exemplar]



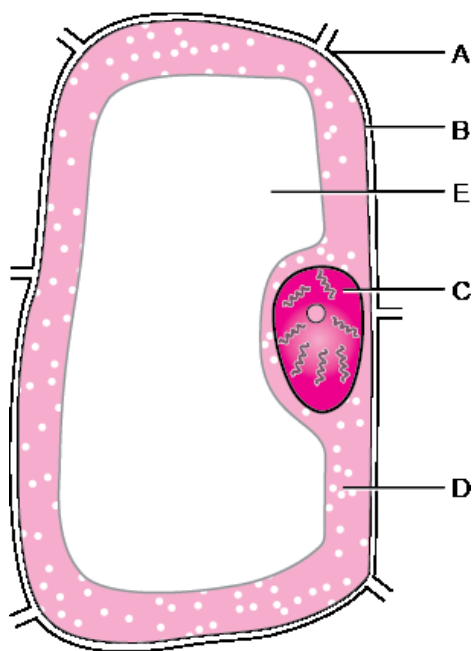
Answer the following questions.

- (i) Does it represent a plant cell or an animal cell?
- (ii) Does it represent a prokaryotic cell or a eukaryotic cell?

Ans. (i) It represents an animal cell.

(ii) It represents a eukaryotic cell.

Q. 3. Label the parts A to E in the diagram given below. [NCERT Exemplar]



Ans. A — Cell wall B — Cell membrane C — Nucleus D — Cytoplasm E — Vacuole

Q. 4. Classify the following terms into cells, tissues and organs and write in the tabular column given below.
[NCERT Exemplar]

RBC, WBC, nerve cell, blood vessels, brain, heart, hand, blood, muscle, nerve

Cell	Tissue	Organ
_____	_____	_____
_____	_____	_____
_____	_____	_____

Ans.

Cell	Tissue	Organ
RBC	Blood	Blood vessels
WBC	Muscle	Heart
Nerve Cell	Nerve	Hand
		Brain

Q. 5. Why are mitochondria known as power house of the cell?

Ans. Mitochondria are known as power house of the cell because it provides energy from food as a result of cellular respiration.