

**CLASS –IX**

**Biology**

**Date:-20/04/2020**

**Study from the video uploaded (part-1,2&3) Chapter:- "Cell" and then write the answer of these questions in your notebook.**

1. What is nucleus?
2. Who discovered nucleus in which year?
3. Learn about the complete structure of a nucleus.

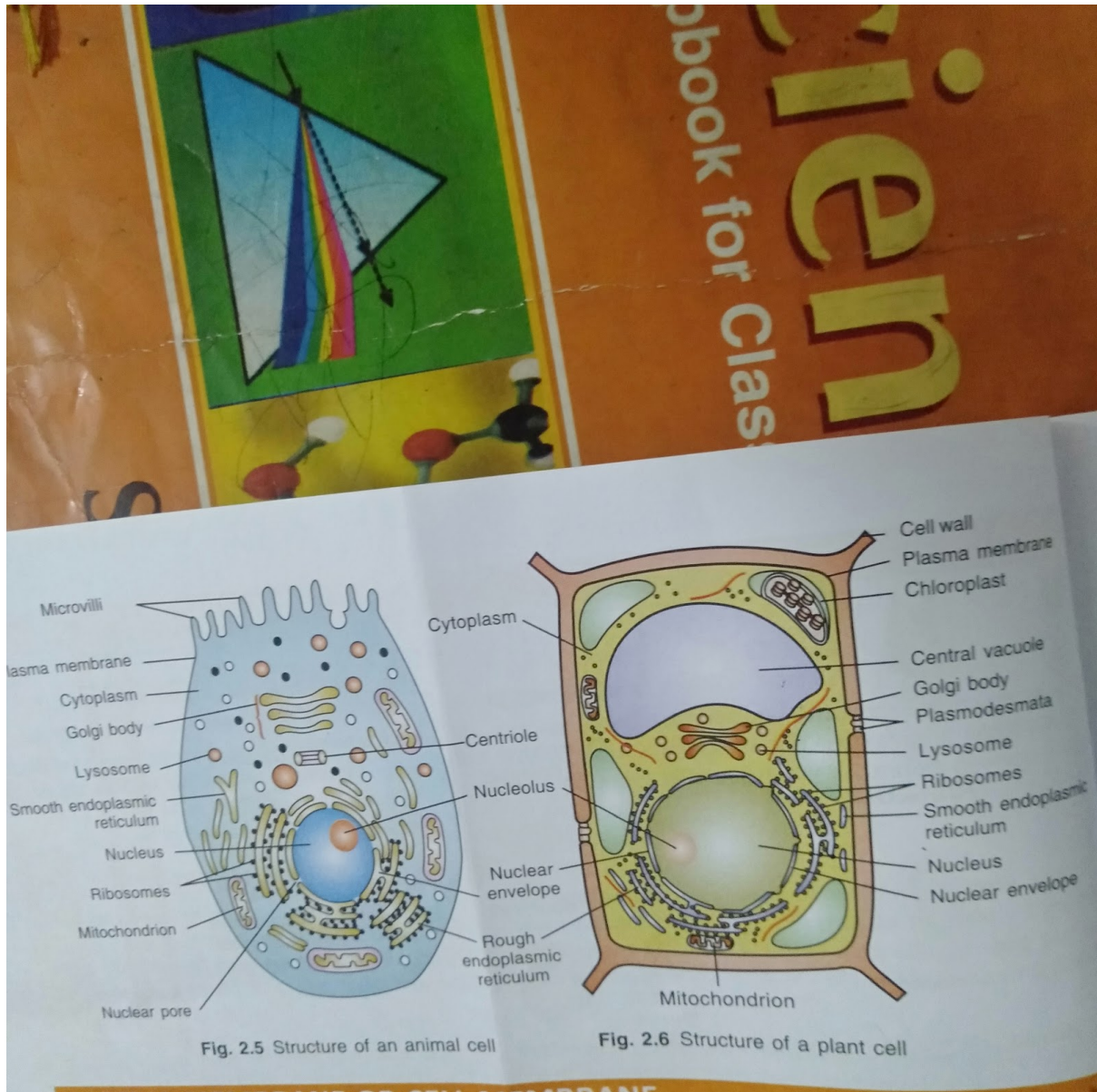
**Tally your answers here:  
(Questions given on 14/04/2020)**

1. Do yourself.
2. Answer of intext questions :-
  - a. Robert Hooke discovered cells.He observed them while examining a thin slice of cork under his self made crude microscope as hollow compartments bounded by walls.
  - b. Cell are structural unit of life because all living organisms are formed of one or more cells. Cells are functional unit of life because each cell performs all the life activities like *Nutrition, Respiration, Excretion* and *Multiplication*.

**3. Difference between diffusion and osmosis:-**

In diffusion, particles move from an area of higher concentration to one of lower concentration until equilibrium is reached. In osmosis, a semipermeable membrane is present, so only the solvent molecules are free to move to equalize concentration.

**4. Difference between plant and animal cell:-**



##### 5. Definition of the following solution:-

- a. **Hypertonic solution**:- A hypertonic solution is a particular type of solution that has a greater concentration of solutes on the outside of a cell when compared with the inside of a cell.
- b. **Hypotonic solution**:- A hypotonic solution is any solution that has a lower osmotic pressure than another solution. In the biological fields, this generally refers to a solution that has less solute and more water than another solution.
- c. **Isotonic solution**:- An isotonic solution refers to two solutions having the same osmotic pressure across a semipermeable membrane. This state allows for the free movement of water across the membrane without changing the concentration of solutes on either side.

##### 6. Endocytosis in AMOEBA:-

Amoeba is a holozoic animal. It engulfs its food from external environment through the process of phagocytosis with the help of its *pseudopodia*.

Taking in the macromolecules (in the form of food) by the cell is called *endocytosis*.

**PSEUDOPODIA:-**  
**PSEUDO+PODOS**

***False. + Feet.***

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