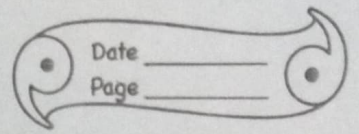


Homework



1) Why plant tissue are different from animal tissue?

Plant tissues are different from animal tissues because:

- Plants are autotrophic organisms whereas animals are heterotrophic organism i.e. plants prepare their own food but animals do not.
- Moreover plants are stationary because they don't have to move for searching food. So they do not consume much energy. Whereas animals are mobile organisms as they have to move in search of food, shelter etc. So they consume more energy.
- As plants are stationary they need more support, so most plant tissues are dead to provide structural strength. But in animals most cells are living to perform various activities effectively.

2) Differentiation between 2 types of plant tissues:

Meristematic

The cells continuously divide.

- Cells are small, undifferentiated and isodiametric in shape.

- Cell wall is thin and living.

- Intracellular spaces are absent.

- Nucleus is large and prominent.

- Cells of meristematic tissue take part in growth.

Permanent

The cells have lost their ability to divide.

- Cells are large, differentiated and of varied shapes.

- Cell wall is thin (living) and also thick (dead).

- Intracellular spaces are often present.

- Nucleus is less conspicuous.

- Cells take part in support, flexibility, strength, storage, conduction and photosynthesis etc.

3) Four types of animal tissues are:

- Epithelial tissue
- Connective tissue
- Muscular tissue
- Nervous tissue.

4) Blood is called a connective tissue because it connects body systems, transports oxygen and nutrients to all the parts of the body and removes waste products.

It has an extra-cellular matrix called plasma with RBC, WBC and platelets in it.