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Sub. Biology

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Based on NCERT patterns

1. What are the functions of areolar tissue?

Areolar tissues are typically observed in animals. They are connective tissues and are found in between skin and muscles. They are also located around blood vessels and nerves and are present in the bone marrow. The space inside the organs is filled with these tissues. They support the delicate internal organs and assist in tissue repair in case of damage.

2. Define the term 'tissue'?

A tissue is defined as a cluster of cells which are similar in structure and work together to perform a particular function.

3. How many types of elements together make up the xylem tissue? Name them.

The xylem tissue is made up of four main elements, namely:

- Vessels
- Tracheids
- Xylem fibres
- Xylem parenchyma

4. How are simple tissues different from complex tissues in plants?

The following are the differences:

Simple tissues	Complex tissues
They are made up of a single type of cell that performs only one common function	They are made up of more than one kind of a cell that coordinate to perform one particular function

5. Differentiate between parenchyma, collenchyma and sclerenchyma on the basis of their cell wall.

The following are the differences based on cell wall between different tissues:

Parenchyma	Collenchyma	Sclerenchyma
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Cell walls are thin and made up of cellulose	Cell walls are thick at the edges due to the deposition of pectin	Cell walls are thick due to the deposition of lignin
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