

COMPLEX TISSUE

- ▶ Complex tissue is made up of more than one types of cells.
- ▶ They work together.

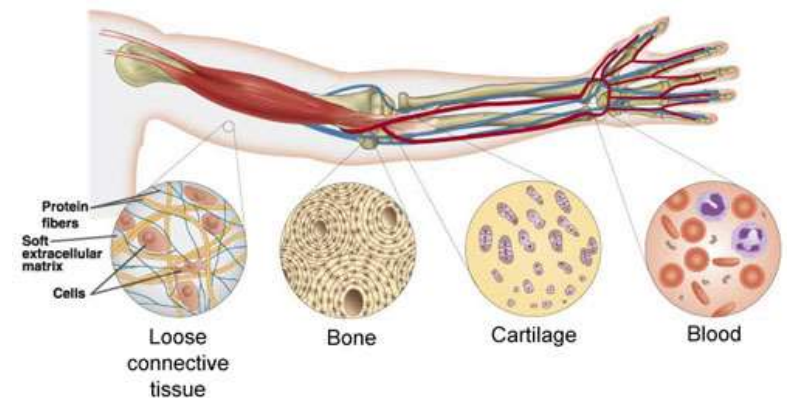
Types of Complex tissues

Connective tissue :

- ◆ Connective tissue consists of matrix.
- ◆ The cells are embedded in the matrix.
- ◆ The nature depends on the nature of the matrix. Fixed substance
- ◆ The matrix may be jelly-like, fluid, dense or rigid.
- ◆ This can be explained from the different types of connective tissue as given. This Hard

- i. Bone
- ii. Blood
- iii. Ligament
- iv. Tendons
- v. Cartilage
- vi. Areolar
- vii. Adipose

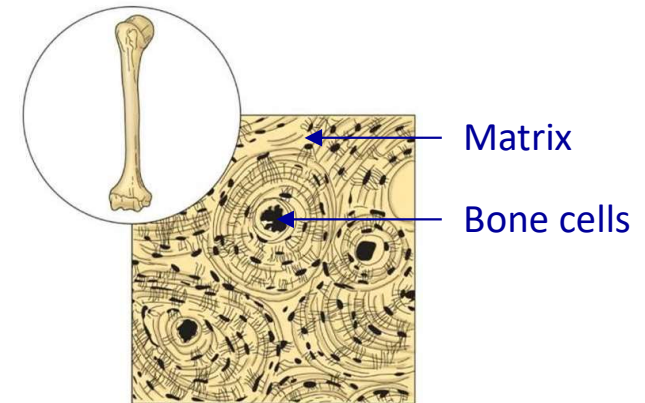
Let us see them one by one



Types of connective tissue :

i. Bone :

- ◆ It forms the supporting framework of the body.
- ◆ It also anchors the muscles and supports the main organs of the body.
- ◆ It is a strong and non-flexible
- ◆ Bone cells are embedded in a matrix that is composed of calcium and phosphorus compounds.



Types of connective tissue :

ii. Blood :

- ◆ Blood is a fluid connective tissue.
- ◆ It has a fluid matrix called plasma in which red blood corpuscles (RBCs), white blood corpuscles (WBCs) and blood platelets are suspended.
- ◆ The plasma contains proteins, salts and hormones.
- ◆ Blood transports nutrients and hormones.

