

1/8/21

HOME ASSIGNMENT

1. Write two difference between Blood and Lymph.

Ans) Two differences between Blood and Lymph -

Blood

Lymph

\* It is red in colour due to the presence of haemoglobin in red cells.

\* It is colourless as red blood cells are absent.

\* It moves away from the heart and towards the heart. \* It moves in one direct ion i.e. from scapula to sub-clavians.

2. How bone differs from cartilage?

Bone

Cartilage

- |  |  |
|--|--|
| 1. Matrix is composed of a tough, inflexible material, the ossein.   | 1. Matrix is composed of a firm, but flexible material, the chondrin.                              |
| 2. Matrix is always impregnated with calcium salts.  | 2. Matrix may be free or impregnated with calcium salts.   |
| 3. Bone cells lie in lacunae singly.   | 3. Cartilage cells lie in lacunae singly or in groups of two or four.                              |
| 4. Osteocytes are irregular and give off branching processes in the developing bone.   | 4. Chondroblasts are oval and devoid of processes.   |
| 5. Lacunae give off canaliculi.  | 5. Lacunae lack canaliculi.  |
| 6. There are outer and inner layers of special bone forming cells, the osteoblasts, that produce new osteocytes, which secrete new lamellae of matrix. | 6. There are no special cartilage-forming cells. Cartilage grows by division of all chondroblasts. |
| 7. Matrix occurs largely in concentric lamellae.   | 7. Matrix occurs in a homogeneous mass.  |

8. Bone is highly vascular  
9. Bone may have bone marrow at the centre.

8. Cartilage is non-vascular.  
9. No such tissue is present.

3. What is the main-function of muscle tissue?

Ans) The main function of muscle tissue is <sup>to help</sup> for the movement in our body. Muscles contain special proteins called contractile proteins, which contract and relax to cause movement.