
Tissues: The Living Fabric

In the human body, cells can not exist isolated from each other. Instead, they form tight, interdependent cell communities that function cooperatively. Individual cells are specialized, with each type performing specific functions that help maintain homeostasis and benefit the body as a whole. Cell specialization allows the various parts of the body to function in very sophisticated ways. Groups of closely associated cells that are similar in structure and perform a common function are called tissues. There are four primary tissue types that interweave to form the "fabric" of the body.

The four primary tissue types are: _____ tissue
_____ tissue
_____ tissue
_____ tissue

The four primary functions of the tissue types are:

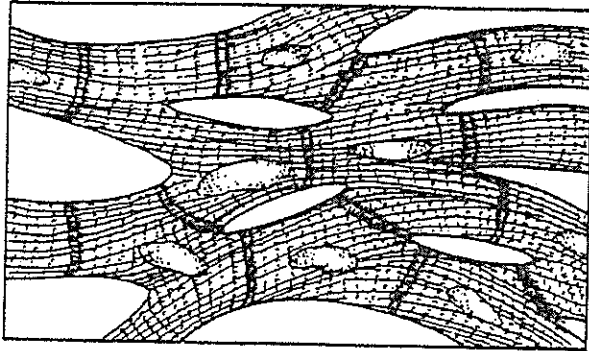
_____ = _____ tissue
_____ = _____ tissue
_____ = _____ tissue
_____ = _____ tissue

Once again, structure is directly related to function. For example, cells whose function is to support and protect must be cells that are strong and exhibit special characteristics that will allow them to accomplish their function.

- Q1. What characteristics must these cell have?
- Q2. What structure would these cells need to accomplish their job?
- Q3. What do you think these cells would look like?

Your Job:

Look at the pictures illustrating the various tissue types found in the human body. Identify which primary tissue type you think the picture is representing and it's basic function. In addition, you have to check the systems and identify the organs you *think* these tissues would be found in. You should also explain the reasoning for your choices.



Tissue Type

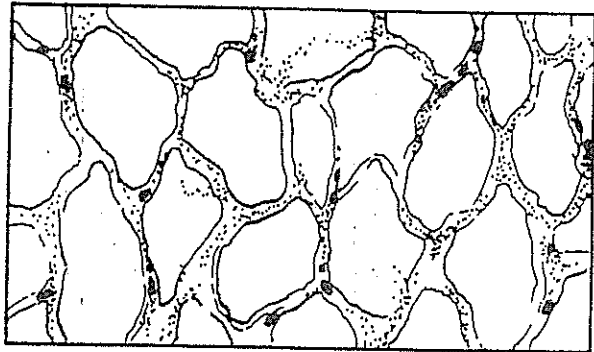
System / Organ

- epithelial
- connective
- muscle
- nervous

Tissue Functions - you can pick more than one.

- | | | |
|--|--|---|
| <input type="checkbox"/> protection | <input type="checkbox"/> support | <input type="checkbox"/> movement |
| <input type="checkbox"/> regulation/control | <input type="checkbox"/> absorption | <input type="checkbox"/> secretion |
| <input type="checkbox"/> filtration | <input type="checkbox"/> covering/lining | <input type="checkbox"/> binding/connecting |
| <input type="checkbox"/> allow stretch/flexibility | <input type="checkbox"/> contraction | <input type="checkbox"/> insulation |
| <input type="checkbox"/> transportation | <input type="checkbox"/> storage | <input type="checkbox"/> other _____ |

Reasoning:



Tissue Type

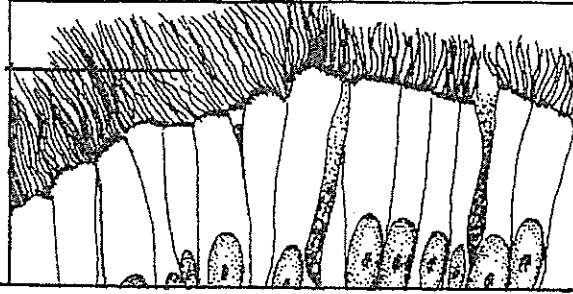
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Reasoning:



Tissue Type

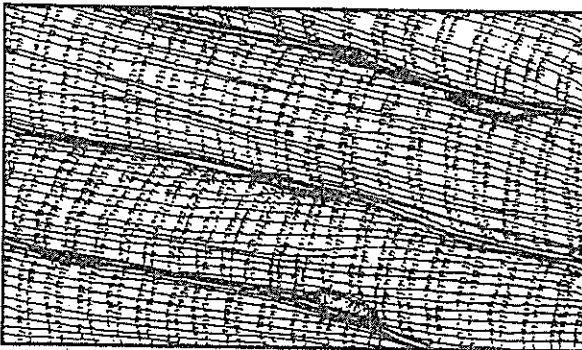
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Reasoning:



Tissue Type

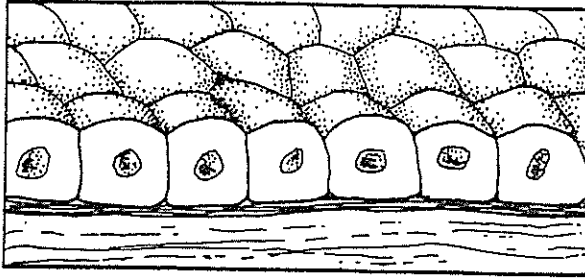
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Reasoning:



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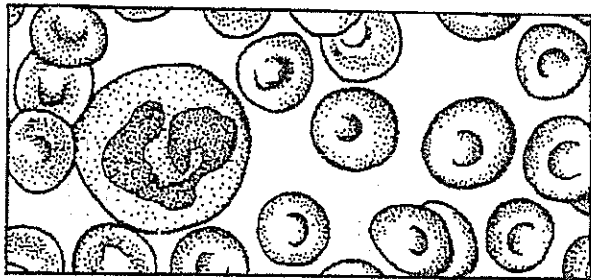
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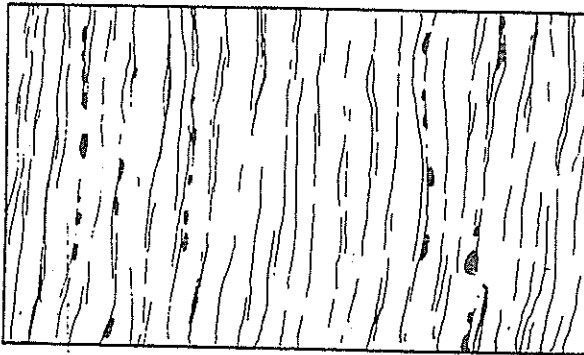
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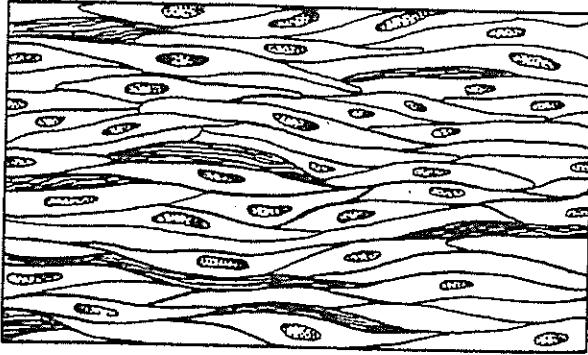
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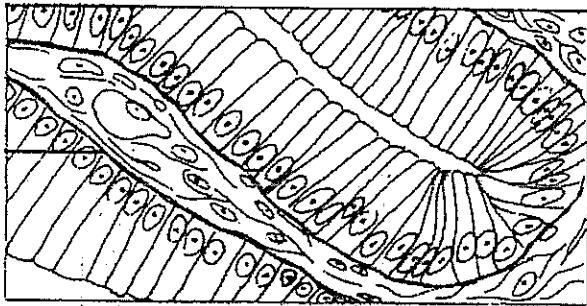
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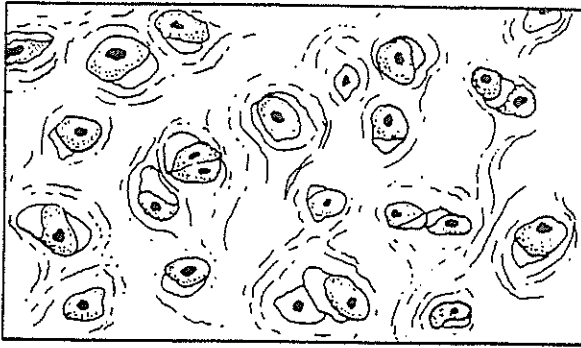
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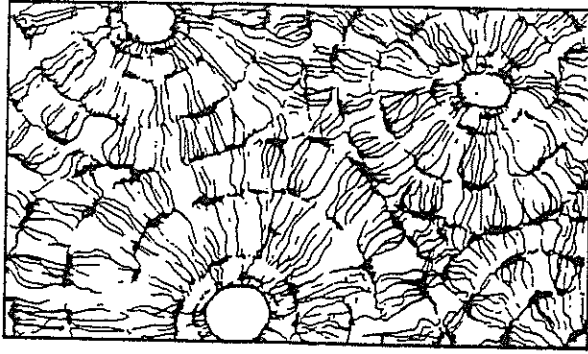
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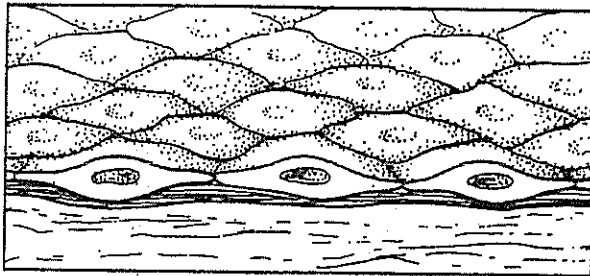
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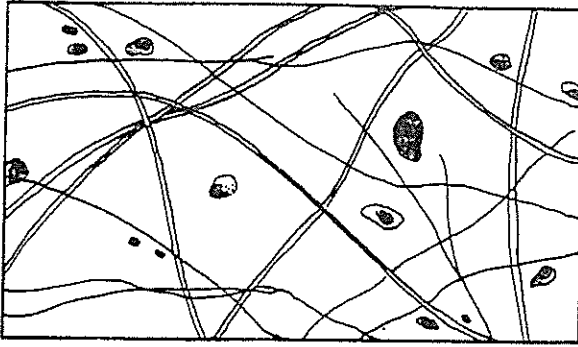
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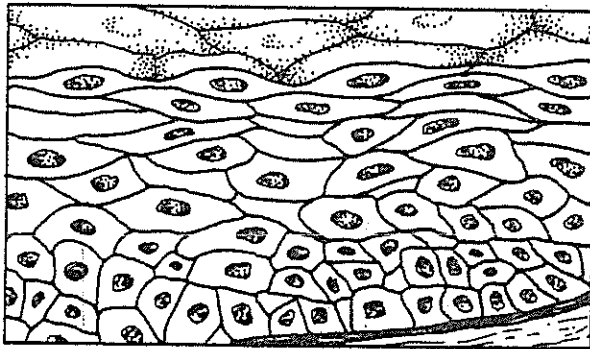
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Reasoning:

1

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5