Name _____ Period _____

Science Starters – Body Tissues

For extended response questions, answers must be written in full sentences and the question must be restated. For multiple choice questions, first choose the right answer and then using complete sentences explain why you chose the answer you did.

Use the chart below to help you answer questions Day 1 through Day 5.

The Four Major Types of Tissues In Mammals

Epithelial Tissue	Connective Tissue	Nerve Tissue	Muscle Tissue
• Covers surface of the body • Cells closely packed together • Cells often found in layers • Covers internal and external body surfaces • Aids in protection of the body	• Supports, connects, and separates different body tissues and organs • Can be fibrous • Cells are usually spread out through a nonliving fluid matrix	• Transmit impulses throughout body to send signals • Helps regulate and control body functions • Cells can be longer than a foot in length • All sensory information (hearing, seeing, touch…) and action signals are transmitted through nerve tissue	• Elongated cells organized in a pattern • Cells can contract and relax causing movement in various parts of the body • Muscle tissue can control both voluntary and involuntary movements

Day 1

A patient was having a serious heart operation. The surgeon watched as the patient's heart beat and moved blood throughout the body. During the operation a small piece of the heart was removed and analyzed under a microscope. The surgeon successfully repaired the heart and the patient made a full recovery. What type of tissue was viewed with the microscope?

A. Epithelial Tissue
B. Connective Tissue
C. Nerve Tissue
D. Muscle Tissue

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_____

Day 2

A patient was having a colonoscopy in which polyps were being removed from her colon. To do this, a doctor used a camera to look at the inside surface of the large intestine. What type of tissue was being viewed with the camera during the colonoscopy?

A. Epithelial Tissue
B. Connective Tissue
C. Nerve Tissue
D. Muscle Tissue

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Day 3

An athlete was running the 100 meter dash when he heard a snapping sound. Instantly he felt pain near his heal. After being examined by a doctor, he was told that he tore his Achilles tendon. The tendon attaches the calf muscle to a heal bone. The athlete had surgery to repair the torn tendon. What type of tissue is the Achilles tendon made up of?

A. Epithelial Tissue
B. Connective Tissue
C. Nerve Tissue
D. Muscle Tissue

Day 4

A woman having a baby chose to have an epidural procedure during child birth to relieve some of the pain. During the epidural procedure, pain relieving drugs are injected into the spinal cord. This prevents the pain messages from reaching the brain and the new mom is more comfortable during child birth. What type of tissue does the epidural procedure affect the most?

A. Epithelial Tissue
B. Connective Tissue
C. Nerve Tissue
D. Muscle Tissue

Day 5

The chart below has 4 different materials that are similar to the 4 different body tissues. Decide which body tissue is most similar to each of the materials and then describe how that material is similar to the body tissue. Each body tissue is used only once.

Material	Similar To Which Body Tissue	Description of How Material and Tissue are Similar
Wet Suit That A SCUBA Diver Wears		
Duct Tape		
Fiber Optic Telephone Line		
Piston to Open An Automatic Door		

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