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Chamberlain University College of Nursing

BIOS 252: Anatomy and Physiology II

Professor Horn

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Week 1: Muscular System Lab Report

1. Describe the different muscle tissues using the table: (4 points)

	Fibers	Voluntary or Involuntary	Location	Nervous system control: peripheral NS or Autonomic NS?
Skeletal muscle	They are long, striated, cylindrical multinucleated.	Voluntary	They are found throughout the body and are connected to bones through tendons.	Peripheral NS
Smooth muscle	Non-striated spindle-shaped, are uninucleated.	Involuntary	Smooth muscle fibers are found in the walls of hollow visceral organs like the liver, pancreas, and intestines.	Autonomic NS
Cardiac muscle	Striated long, branched cells, shaped like cylinders and are uninucleated	Involuntary	Located in and around the heart only	Autonomic NS

2. What is a sarcomere? (½ point)

A sarcomere is the primary muscle fiber contractile unit in skeletal muscle composed of.

3. a. Which contractile protein makes up the thick filament? (½ point)