

CHAPTER 10**ANSWER KEY****Types of Muscle Tissue
Answer Key****BLM 10.1.1A**

1.

Characteristics of Muscle Tissues

Type	Structure	Voluntary/ Involuntary?	Location in the Body
Smooth	Long, tapered, arranged in sheets, non-striated, one nucleus per cell.	Involuntary	Walls of blood vessels, digestive tract and other internal organs, iris.
Cardiac	Tubular, arranged in a branched network, striated, one nucleus per cell.	Involuntary	Heart
Skeletal	Tubular, very long, striated, many nuclei per cell.	Voluntary	Attached to the bones of the skeleton, eyelids

2. Muscle response to the doorbell:

Smooth Muscle	<ul style="list-style-type: none"> • vasodilation in blood vessels supplying the skeletal muscles • vasoconstriction in internal organs, which directs more blood to the brain • Iris contracts in response to increased light
Cardiac Muscle	<ul style="list-style-type: none"> • increased rate of contraction (heart rate) • increased force of contraction (stroke volume)
Skeletal Muscle	<ul style="list-style-type: none"> • eye lids open, eye balls are moved • contraction and relaxation creating an upright posture and movement of the skeleton • increased contraction of diaphragm (breathing rate) • contraction of muscles creating speech and facial expressions