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Crash Course Anatomy & Physiology #2: Tissues – Part 1

Name: _____ Date: _____

You can access the video here → <https://youtu.be/15tRjcaCWYc?si=c4p3EUbhykGSbMC>.

1. Amoebas are _____ organisms that do everything within a single cell.
2. In multicellular organisms, _____ allows cells to perform specific functions.
3. Groups of similar cells that perform a common function are called _____.
4. When tissues combine, they form _____.
5. The four primary tissue types are nervous, muscle, epithelial, and _____ tissue.
6. _____ is the study of tissues.
7. Nervous tissue is specialized for sensing stimuli and sending _____ impulses.
8. The two main types of cells in nervous tissue are _____ and glial cells.
9. The _____ is the part of a neuron that contains the nucleus and other organelles.
10. The _____ receive signals from other cells and send them to the soma.
11. The _____ carries messages away from the neuron to other cells.
12. Muscle tissue that is attached to bones and under voluntary control is called _____ muscle.
13. The heart contains _____ muscle, which contracts involuntarily.
14. Muscle tissue that lines the digestive and urinary tracts is called _____ muscle.
15. _____ are the structures where cardiac muscle cells join, allowing signals to pass between them.

Crash Course Anatomy & Physiology #2: Tissues – Part 1 KEY

1. Amoebas are **unicellular** organisms that do everything within a single cell.
2. In multicellular organisms, **specialization** allows cells to perform specific functions.
3. Groups of similar cells that perform a common function are called **tissues**.
4. When tissues combine, they form **organs**.
5. The four primary tissue types are nervous, muscle, epithelial, and **connective** tissue.
6. **Histology** is the study of tissues.
7. Nervous tissue is specialized for sensing stimuli and sending **electrical** impulses.
8. The two main types of cells in nervous tissue are **neurons** and glial cells.
9. The **soma** is the part of a neuron that contains the nucleus and other organelles.
10. The **dendrites** receive signals from other cells and send them to the soma.
11. The **axon** carries messages away from the neuron to other cells.
12. Muscle tissue that is attached to bones and under voluntary control is called **skeletal** muscle.
13. The heart contains **cardiac** muscle, which contracts involuntarily.
14. Muscle tissue that lines the digestive and urinary tracts is called **smooth** muscle.
15. **Intercalated discs** are the structures where cardiac muscle cells join, allowing signals to pass between them.

15 Questions

Answer Key Included

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