Unit 1 Quiz

1. Fill in the blanks.	lonic bonds are different from covalent chemical bonds in that ionic
bonds involve the _	of electrons by two atoms, in contrast to the
of ele	ectrons in covalent bonds.
A. Sharing, transfer	
B. Transfer, sharing	
C. Attraction, repelli	ng
D. Repelling, attract	ion
2. Which type of bor	nd is most prevalent in gases, liquids, and solid materials?
A. Covalent	
B. Ionic	
C. Hydrogen	
D. Polar	
3. Place these steps	s of the Central Dogma of Molecular Biology in the correct order:
I. mRNA is p	rocessed.
II. DNA is rep	olicated.
III. mRNA is	translated to protein.
IV. mRNA is	transcribed.
A. I, II, III, IV	
B. IV, III, II, I	
C. II, IV, I, III	
D. II, I, IV, III	
4. What does it mea	an to say that mRNA gets "processed?"
A. mRNA is degrade	ed.
B. mRNA is synthes	sized.

D. mRNA is spliced to remove exons and migrates from nucleus into cytoplasm.



C. mRNA is used to synthesize proteins.

5. Which of the following is NOT one of the four important regions found in every neuron?A. Cell bodyB. DendritesC. AxonD. Apical membrane
6. Assign each of the following functions with the appropriate neuron which carries out the function: S: Sensory neuron, I: Interneuron, M: motor neuron.
converts external stimuli, such as touch or smell, into internal stimuli, which is processed in the brain.
carry signals from the central nervous system to cause muscles to move.
forms a connection between two other neurons
7. What is a primary function of a dendrite? A. Receive signals from other neurons and conduct the signal to the neuron cell body B. Send electrochemical signals to the post-synaptic neuron C. Generate an action potential to propagate the electrical signal D. Synthesize and store neurotransmitter molecules
8. Fill in the blanks. In a simple reflex circuit, contain afferent axons, and contain efferent axons. A. Interneurons, sensory neurons B. Motor neurons, sensory neurons C. Motor neurons, interneurons D. Sensory neurons, motor neurons
9. The central nervous system consists of what component(s)?A. Brain onlyB. Brain and spinal cordC. Brain, spinal cord, and cranial nervesD. Spinal cord only
10. Match the following sense with the correct sensory organ:
Fill in the blank with the correct letter. Hint: not all of the organs listed are sensory organs!

A: skin, B: heart, C: nose, D: liver, E: ear, F: kidney, G: tongue, H: brain, I: eye



Sense of smell
Sense of taste
Sense of touch
Sense of sight

Sense of hearing _____

- 11. Which of the following does the cerebellum NOT control?
- A. Balance
- B. Emotions
- C. Posture
- D. Coordination
- 12. Label items 1-3 on this figure with the correct body plane name.
- A. Sagittal plane
- B. Transverse plane
- C. Coronal plane

Source: http://commons.wikimedia. org/wiki/File:BodyPlanes_fi .jpg



