1. Consider the image below. Which of the two bottom figures is a person more likely to say is “most like” the image on the top, assuming that person is in a good mood?
   a. The figure on the left
   b. The figure on the right

2. Physiological studies of emotion have primarily focused on
   a. Those emotions associated with reproductive behaviors
   b. Those emotions associated with the experience of success
   c. Happiness and euphoria
   d. Anger and fear
   e. Sadness

3. In healthy people, neurons within the amygdala are activated by
   a. All classes of sensory signals
   b. Texture cues within the environment
   c. Detection of emotionally relevant stimuli
   d. Motor signals arising from the caudate nucleus
   e. Ascending tactile signals

4. Moral judgments that involve deciding to harm another person ______ activity within the ________.
   a. Decrease; ventromedial prefrontal cortex
   b. Increase; motor cortex
   c. Increase; ventromedial prefrontal cortex
   d. Decrease; hippocampus
   e. Increase; ventromedial hypothalamus

5. Excessive anger that results in murder may reflect a combination of inadequate activation of the _____ and enhanced activation of the _____.
   a. Prefrontal cortex; hypothalamus
   b. Amygdala; prefrontal cortex
   c. Prefrontal cortex; amygdala
   d. Cortex; reticular activating system
   e. Noradrenergic system; serotonergic system
6. According to Darwin, the expressions of emotion in humans
   a. Are unique to each culture
   b. Are learned during an early critical period
   c. Vary greatly among individuals in different cultures
   d. **Evolved from similar expressions in other animals**
   e. Involve muscle movements of the hands but not the face

7. Left hemisphere is to right hemisphere as comprehension of words is to
   a. Production of words
   b. **Recognition of emotion using tone of voice cues**
   c. Grammar
   d. Facial expression of emotion
   e. Autonomic reactivity

8. The amygdala is most definitely involved in the recognition of _____ communicated via ____
   a. Fear; facial expression
   b. Happiness; tone of voice
   c. Fear; tone of voice
   d. Happiness; body posture
   e. Anger; tone of voice

9. People with volitional paresis are unable to
   a. Cry
   b. Comprehend other people’s emotions
   c. **Voluntarily move their facial muscles**
   d. Move their facial muscles when having a natural emotional response
   e. Use tone of voice to communicate their emotional states

10. According to the *James-Lange* theory of emotion, which of the following is most important for the subjective experience of emotion?
    a. An intact thalamus
    b. The cultural context in which an event occurs
    c. One’s self-report of what is being experienced
    d. **Sensory feedback from muscles and internal organs**
    e. Changes in hormone levels provoked by the stimulus

11. Studies by Ekman (and others) suggest that
    a. different emotions are expressed in similar ways by the facial muscles
    b. **even simulated facial emotional expression changes activity in the nervous system**
    c. fear and happiness produce similar changes in the autonomic nervous system
    d. simulated facial emotional expression changes parasympathetic activity
    e. c and d

12. The two main theories regarding the lateralization of emotion processing in the brain are
    a. The right-hemisphere model and the left-hemisphere model
    b. **The right-hemisphere model and the valence model**
c. The left-hemisphere model and the cingulate model
d. The valence model and the cingulated model
e. The animal model and the medial prefrontal model

13. An event-related potential (ERP)
   a. Is created by averaging together many snippets of EEG
   b. Gives good information about the localization of brain function
   c. Gives poor information about the timing of brain function
   d. Gives information about all activity occurring in the cortex
   e. All of the above

14. Given the context “a kind of vehicle”, which of the following words would likely show a mood-dependant difference in the amplitude of the N400 component of the ERP?
   a. Car
   b. Plate
   c. Apple
   d. Elevator
   e. Ice-cream

15. PET studies indicate that the comprehension of emotion from tone of voice is associated with increased activity of the
   a. Right and left hemispheres
   b. Left hemisphere only
   c. Left frontal cortex
   d. Anterior portion of the corpus callosum
   e. Right prefrontal cortex

16. Name one theory of emotion other than the James-Lange theory, and describe how it proposes emotion works.