**6 Non-visual Sensory Systems: Multiple Choice Questions for Students**

1. The process of sensory perception starts at the

1. receptor cells
2. spinal cord
3. brain stem
4. cortex

Answer A

2. The outer layer protecting the spinal cord is termed the

1. dura
2. pia
3. arachnoid
4. grey matter

Answer A

3. Motor neurons are located in the \_\_\_\_\_ horn of the spine and activate skeletal muscles.

1. ventral
2. dorsal
3. grey
4. white

Answer A

4. The lateral nucleus cuneatus receives projections from which area of the body?

1. upper parts
2. lower parts
3. hands only
4. feet only

Answer A

5. Analgesia refers to

1. the dorsal horn
2. part of the motor cortex
3. pain relief
4. not being able to feel touch

Answer C

6. How many neurons are present in somatosenory pathways?

1. 1
2. 2
3. 3
4. 4

Answer C

7. The cochlea is located in the

1. inner ear
2. middle ear
3. outer ear
4. lateral ear

Answer A

8. The resting potential of inner hair cells is typically

1. –40 mV
2. +40 mV
3. +60 mV
4. –60 mV

Answer D

9. Nerve cells found at one part of the auditory cortex react best to low sounds; nerve cells at the other end react best to high sounds. This is termed a

1. soundoptic map
2. tonotopic map
3. auditory map
4. cochlear map

Answer B

10. The axons of the taste receptors become branches of cranial nerve(s)

1. 7
2. 9
3. 10
4. all of the above

Answer D