The primary artery that supplies cerebral cortex on the lateral surface of a cerebral hemisphere is:

A) the middle cerebral artery
B) the middle cerebral artery
C) the middle cerebral artery
D) the middle cerebral artery
E) the middle cerebral artery
Neurons at this spot on the postcentral gyrus are likely to become more active when a spot of skin on the _____ is stimulated.

A) left cheek  
B) right hand  
C) left shoulder  
D) right hip  
E) left leg
A man complained of severe pain in the throat and ear, triggered by swallowing, coughing, chewing and laughing. Additional problems include:
   i) loss of gag reflex
   ii) dysphagia (difficult swallowing)
   iii) loss of tactile sensation in the vicinity of the tonsils

An injury to cranial nerve _____ produces these symptoms?

A) XII  
B) IX  
C) V  
D) VII  
E) X

B) IX  glossopharyngeal neuralgia
Local anesthetics provide pain relief by:

A) reducing production of chemical released from injured tissues.

B) reducing conduction of action potentials in pain afferents.

C) reducing effective operation of chemical synapses in pain pathways.

D) reducing activity in the periaqueductal gray matter of the brain stem.

E) reducing the opening of ion channels in forebrain neurons.
Skeletal muscle cells in the triceps are innervated by motor axons in spinal nerve:

A) C3
B) C5
C) C7
D) T1
E) T3