Brain Scenarios

Name		Block	Date

Directions: Read the following scenarios and explain the area of the brain that is affected.

Scenario	What area?
1. Walking down a dark New York street late at night you suddenly	
feel the metal barrel of a pistol press against your head behind your	
ear and hear the instructions "Don't move a muscle while I slip your	
wallet out of your pocket." Unfortunately you do move, the gun is	·
fired and the bullet enters the brain. Breathing and heart beat stop	
almost immediately. Where is the bullet?	
2. "Little Mo" was extremely short for his age. His doctors concluded	
his brain was not stimulating the proper release of hormones	
necessary for growth. What area of the brain are they probably	
focusing on?	
3. You're in a parking lot at 2 AM when a guy in a hockey mask	
holding a long-bladed knife jumps out at you. What system of nerves	
would arouse your body to action?	
4. On Justin's 21st birthday he & his buddies celebrated a bit too	
much. When the police stopped his car Justin's speech was slurred,	
he couldn't walk a straight line or balance on one foot. He nearly	
missed his face altogether when asked to touch his nose while his	
eyes were closed. The impaired functioning of what part of Justin's	
brain is responsible for these difficulties with motor coordination and	
balance?	·
5. Uncle Ed suffered a stroke which damaged a portion of his cortex.	
He shows some weakness and partial paralysis of his right leg. What	
area of his cortex was affected by the stroke?	
6. Paul suffered from encephalitis (a brain infection) while in college.	
He received good medical attention but still the infection took its toll	
on certain parts of his brain, so that now Paul cannot store new long-	
term memories. What part of the brain did the encephalitis damage?	
7. Leon's car was broadsided by a truck causing Leon's head to	
smash against the driver's side window damaging his temporal lobe.	•
What ability may be affected?	
8. Jeff suffered serious injuries when his car crashed but he was still	
able to crawl out of the car and pull his sister out as well. Name one	
of the transmitters that helped him function in this situation and tell	
how.	
9. Philip is hooked on cocaine. What neurotransmitter seems most	
closely related to the pleasure such drugs produce and their addictive	
qualities?	
10. Grandma Mary had a stroke which impaired her ability to speak	
fluently although she can move all the necessary muscles. What is	
the most likely location of her brain damage?	
11. Gwen's brain has a congenital anomaly (a difference in brain	
anatomy that she was born with) - it lacks the main connection	
between the right and left hemispheres. What was Gwen born	·
without?	
12. Sara's grandfather has developed Alzheimer's disease. What	· ·
can you tell her about probable changes in his brain chemistry? 13. You're taking a short cut through a back yard to get to your car	
and encounter two unrestrained Dobermans who begin pursuit. You	
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run faster than you have ever run before, and dive into your car just in the nick of time. It takes 10 minutes for your pulse and breathing to slow down to normal. What part of the nervous system slows heart rate and breathing down to normal afterwards?	
14. Amy was having a really bad week. On Monday her vision got blurrier and blurrier until she could no longer see at all. On Tuesday she found she couldn't hear. On Wednesday her sense of taste went. On Thursday she lost her sense of touch. Her CAT scan revealed a single brain tumor was probably producing all of these deficits. What single part of the brain in involved in all of these sensory processes?	
15. Pete was struck by lightening when he insisted on finishing his 18 holes of golf despite the lightening packed thunderstorm. He was looking down; lining up a long putt shot and the bolt of lightening struck the rear of his head, frying his occipital lobes. What aspect of behavior is likely to be impaired if Pete survives?	
16. Dana is taking Prozac to help control her depression. Prozac works by increasing the availability of what neurotransmitter?	,
17. Margie suffered damage to part of the surface of her brain after being struck by a golf club let loose by an irate golfer. As a result Margie has lost some sensory awareness of her left leg. Where is Margie's brain damage (be specific).	
18. After falling through the ice on a local pond Johnny was trapped under the icy water for 10 minutes before the rescuers got him out. They were able to resuscitate his pulse and breathing but he did not regain consciousness for days. Disturbance of what specific part of Johnny's brain might have resulted in an inability of the brain to regulate normal alertness?	
19. Jeanette suffers from focal epilepsy (seizures localized in just one part of the brain). Her seizures are triggering extreme emotionsmost often extreme fear followed by a rage response. What part of the brain is being affected?	
20. After Martin's car accident he had difficulty understanding what others were saying to him. He could speak but what he said made little sense. Where is Martin's brain damage?	
Now create your own scenario!!!	
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