Nervous System Notes: The Brain

- Gray matter –	_ (Located on outside in brain and inside in
spinal cord)	
- White matter –	(Located on outside in spinal cord and
inside in brain)	
Brainstem	
 The brainstem consists of three parts: 	
 Medulla oblongata: contains centers that control 	
pressure, breathing,	, and vomiting
 Pons: controls 	
 Midbrain: contains centers for passing 	
signals	
Cerebellum	
- The cerebellum is important for	and
 Also involved in learning and remembering motor 	skills
Diencephalon	
- The embryonic diencephalon develops into three adult bra	ain regions:
 The epithalamus includes the 	-
and the	(capillaries that produce cerebrospinal
fluid)	(
 The thalamus sends sensory and motor informatic 	on to the
 The hypothalamus regulates 	
 Basic survival behaviors such as 	
reproducing	
 Part of the limbic center 	
Cerebrum	
- The cerebrum contains right and left cerebral hemisphere	S
 Each consist of cerebral cortex overlying white ma 	atter and
(regions	s of gray matter inside brain) – centers for
planning and learning movement sequences	
- The is	a thick band of axons that provides
communication between the right and left cerebral cortice	es
- Each side of the cerebral cortex has four lobes	
• Frontal:	_
 Parietal:	
• Temporal:	
 Occipital: 	
The is a rir	ng of structures around the brainstem
- This limbic system includes three parts of the cerebral cor	tex:,
, and olfactory	y bulb
 These structures attach emotional "feelings" to 	
 These structures attach emotional "feelings" to Structures of the limbic system form in early deve 	lopment and provide a foundation for