

## Chapter 2: Neurobiological Theory of Psychiatric Disorders: Brain functioning, brain development and prenatal and perinatal factors disrupting brain development

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_ 1. On evaluation, the patient appears to be having difficulty with working memory, planning, and insight into his problems. The psychiatric advanced practice nurse recognizes that these symptoms are associated with problems with the
- Frontal lobe
  - Temporal lobe
  - Parietal lobe
  - Occipital lobe
- \_\_\_ 2. On mental status examination, the patient's thoughts reveal lack of directedness, excessive details, and difficulty with closure. This pattern is called
- Concrete thinking
  - Circumstantiality
  - Perseveration
  - Thought blocking
- \_\_\_ 3. The brain structure that is believed to have a gating/filtering function and is the area of the brain through which all sensory information passes en route to various cortical areas is which of the following:
- Brainstem
  - Reticular activating system
  - Thalamus
  - Hypothalamus
- \_\_\_ 4. Which area of the brain is a very primitive in terms of evolution and is involved in swallowing, arousal, and breathing?
- Parietal lobe
  - Insula
  - Cerebellum
  - Brainstem
- \_\_\_ 5. Which of these brain structures puts emotional meaning on a stimulus, forms emotional memories, and is involved with rage and fear?
- Hippocampus
  - Temporal lobe
  - Amygdala
  - Midbrain
- \_\_\_ 6. The principal excitatory neurotransmitter in the central nervous system is
- Gamma-aminobutyric acid (GABA)
  - Serotonin
  - Glutamate
  - Acetylcholine

- \_\_\_ 7. Which structure of the brain is involved in learning, processing information into memories, and assigning the time and the place to memories?
- A. Hippocampus
  - B. Olfactory bulb
  - C. Limbic system
  - D. Occipital lobe
- \_\_\_ 8. Which one of the following is *not* one of the meninges, the three layers that cover the brain?
- A. Arachnoid
  - B. Pia
  - C. Reticular formation
  - D. Dura
- \_\_\_ 9. Which of the following structures provides for communication between the two hemispheres of the brain?
- A. Lateral ventricle
  - B. Basal ganglia
  - C. Corpus callosum
  - D. Hypothalamus
- \_\_\_ 10. Which of the lobes of the brain is primarily involved in auditory hallucinations?
- A. Occipital lobe
  - B. Parietal lobe
  - C. Frontal lobe
  - D. Temporal lobe
- \_\_\_ 11. The function of this brain structure was formerly believed to be limited to maintaining balance and learning motor skills but is now believed to be involved in learning and emotions and may be involved in autism. It is the
- A. Cerebellum
  - B. Insula
  - C. Corpus callosum
  - D. Pons
- \_\_\_ 12. This area of the brain is called a system and is made up of the rim of the medial (innermost) portions of the frontal, parietal, and temporal lobes and overlies the brainstem. It is involved with emotions and is referred to as the
- A. Ventricular system
  - B. Limbic system
  - C. Reticular activating system
  - D. Blood-brain barrier system

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**Answer Section**

**MULTIPLE CHOICE**

1. ANS: A                      PTS: 1
2. ANS: B                      PTS: 1
3. ANS: C                      PTS: 1
4. ANS: D                      PTS: 1
5. ANS: C                      PTS: 1
6. ANS: C                      PTS: 1
7. ANS: A                      PTS: 1
8. ANS: C                      PTS: 1
9. ANS: C                      PTS: 1
10. ANS: D                     PTS: 1
11. ANS: A                     PTS: 1
12. ANS: B                     PTS: 1