**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part 1**

**Vocabulary**

**Circle the best answer to complete each sentence.**

1. Most people think \_\_\_\_ is bad, but when properly managed it can have positive effects on the body and mind.

A) perception

B) stress

C) visualization

D) involvement

2. Professor Flynn’s \_\_\_\_ of expertise is the neuroscience involved with creativity.

A) major

B) comprise

C) stress

D) area

3. The designer’s hard work and dedication played a \_\_\_\_ role in the product’s success.

A) major

B) somewhat

C) creative

D) visual

4. The study was \_\_\_\_ of 85 individuals who had regularly suffered from headaches.

A) created

B) involved

C) dominated

D) comprised

5. Early intervention is \_\_\_\_ for people with a traumatic brain injury.

A) major

B) crucial

C) intense

D) stressful

6. The gene for brown eyes is \_\_\_\_ over the gene for blue eyes.

A) dominant

B) major

C) stressed

D) visual

**Circle the correct word form to complete each sentence.**

7. Success in a new country is often dependent on a person’s ability to \_\_\_\_ to changing circumstances.

A) adapt

B) adaptive

C) adaptability

D) adaptation

8. Neuroscientists used to believe that the left side of the brain was responsible for logic and language and the right side for \_\_\_\_ and intuition.

A) create

B) creative

C) creativity

D) creation

9. The pain in Edward’s shoulder \_\_\_\_ whenever he tried to lift his arm.

A) intense

B) intensify

C) intensely

D) intensified

10. He described what happened so clearly that it was easy to \_\_\_\_ the event.

A) visual

B) visualize

C) visually

D) visualization

**Use five of the words in the box to complete the sentences.**

adapts clarified comprises creates

crucial dominated intense involved

perceived somewhat stressed visualize

11. The doctor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the meaning of *hypotension* as the medical term for low blood pressure.

12. The two-week course is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ less comprehensive than the four-week course, but it is informative nevertheless.

13. Although the brain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ only 2.5 percent of the body’s weight, it uses about 20 percent of the body's energy.

14. Last year, Harry was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a major car accident and spent six weeks in the hospital.

15. Harvard University is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be the best medical school in the United States.

**Part 2**

**Listening**

**Listen to the discussion. Circle the best answer to complete each sentence.**

16. The topic of the lecture was \_\_\_\_.

A) the three brain networks

B) creativity and the brain

C) the left brain/right brain theory

D) “ah-ha” moments

17. We use different parts of our brain in the \_\_\_\_ process.

A) scientific

B) network

C) memory

D) creative

18. The Salient Network monitors \_\_\_\_ events and internal consciousness.

A) interesting

B) past

C) memorable

D) external

19. Some people have a \_\_\_\_ network where one is more active than another.

A) creative

B) distracted

C) dominant

D) relaxed

**Listen to the discussion again. As you listen, complete the Cornell Method notes.**

|  |  |
| --- | --- |
| **Section A** | **Section B** |
| What is creativity?  What are the 3 brain  (21.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?  What is a distraction?  What is dopamine?  What is an “ah-ha” moment? | * Creativity is associated with artistic ability (e.g. painting + music), math, comp. programming + business. Involves more than 1 region of (20.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. * 3 networks = - Executive Attention Network  working memory, focusing on task e.g. listening to lecture - (22.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Network  thinking about future, social interaction, considering other people’s thoughts + perspectives - Salience Network  ext. events + int. consciousness; brain prioritizes what’s most important * (23.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  doing something else besides task (e.g. walking, driving) * dopamine  (24.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ released in brain that makes us relaxed/happy * “ah-ha” moment = when ideas, insights + solutions pop into head like magic |
| **Section C**  Creativity = interaction between of neurons across both hemispheres of brain. The 3 networks  Executive Attention, Imagination + Salient Networks.  All involved in process of (25.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Dopamine + distraction = creativity + “ah-ha” moments. | |

**Look at the chart about asking for and giving clarification. Match the question with the response. Write the letter on the line.**

|  |  |
| --- | --- |
| **Asking for Clarification** | **Giving Clarification** |
| \_\_\_\_ 26. Dr. Flynn said the left brain/right brain theory is a myth and that the brain doesn’t work that way, right? | A. For example, paying attention during on a neuroscience lecture. |
| \_\_\_\_ 27. She said that creativity is not just associated with artistic ability. What did she mean by that? | B. I think she meant those moments when an idea, insight, or solution to a problem suddenly pops into our head. |
| \_\_\_\_ 28. She listed three networks, but I only wrote down two. Did you get the other one? | C. I wrote down that neuroscientists have conducted studies on the brain and creativity, and concluded that the theory is untrue. |
| \_\_\_\_ 29. What’s an example of the Executive Attention Network? | D. I think she meant that creativity is crucial in other fields too, such as mathematics, computer programming, and business. |
| \_\_\_\_ 30. Did you understand what she was saying about “ah-ha” moments? | E. I think the third one is the Salience Network. |

**Part 3**

**Speaking**

**Write notes for a two-minute speech about an “ah-ha” moment. Then present your speech to the class.**

* Think about an “ah-ha” moment you have experienced.
* When and where did it occur?
* What idea did you have or what problem did you solve?