Unit 12 Cognition Concept Sheet

Directions: Answer each of the following questions in complete sentences. Make sure to give examples when necessary and explain fully.

1. Explain the difference between parallel processing and automatic processing.
2. Sketch out Shiffrin and Atkinson’s three-stage processing model of memory. Give an example of the process it takes to convert information about the Cold War to your memory.
3. How did Alan Baddeley challenge Atkinson and Shiffrin’s model of memory processing?
4. Explain the difference of explicit memories and implicit memories. Give an example of each from your own life.
5. What is procedural memory? Give an example.
6. What is the difference between iconic and echoic memory? Give an example of each.
7. How did George Miller plan an important role in memory research?
8. Describe each of the following memory improvement strategies, and give an example of how each can help you on the AP exam:
   1. Chunking
   2. Mnemonic devices
   3. Peg word system
   4. Method of loci
   5. Hierarchies
   6. Distributed practice
9. What is the difference between shallow processing and deep processing? Give an example of each.
10. Describe the function of each brain structure involved in explicit memories.
11. Describe the function of each brain structure involved in implicit memories.
12. What are flashbulb memories? Which part of the brain is associated with these memories?
13. Explain the role of long-term potentiation in memory formation.
14. Explain Ebbinghaus’s research regarding distributed practice. How can Ebbinghaus’s conclusions be applied to your own success on the AP exam?
15. Define and give an example of the following retrieval cues:
    1. Priming
    2. Context-dependent memory
    3. State-dependent memory
    4. Mood-congruent memory
    5. Serial position effect
    6. Primacy effect
    7. Recency effect
16. Who is Jill Price, and what happened to her?
17. Explain the difference between retrograde amnesia and anterograde amnesia. Come up with a memory strategy to remember each type of amnesia.
18. Explain Ebbinghaus’s research regarding the forgetting curve. How can Ebbinghaus’s conclusions be applied to your own success on the AP exam?
19. Explain the difference between proactive interference and retroactive interference. Give an example of each.
20. What are some of Elizabeth Loftus’s conclusions regarding her research in memories? Does she believe in repressed memories?
21. Define prototype.
22. What is the difference between convergent and divergent thinking? Give an example of each.
23. What is an algorithm? Give an example of a time when you would need to use an algorithm.
24. What is the relationship between an algorithm and a heuristic?
25. Give an example of a time you used insight to solve a problem at school.
26. What is a mental set, and how does it relate to problem solving?
27. Explain the difference between a representative heuristic and an availability heuristic. Give an example of each.
28. Define belief perseverance.
29. Define framing.
30. Define and give an example of the following:
    1. Phoneme
    2. Morpheme
    3. Grammar
    4. Semantics
    5. Syntax
31. Explain Noam Chomsky’s research regarding language. What were his conclusions?
32. Are there critical periods of language development in children? Why or why not?
33. Explain Benjamin Whorf’s concept of linguistic determinism.