

# University of Central Florida (UCF) EXP3604 Cognitive Psychology Final Practice Exam (Sample)

Study Guide



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## Questions

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1. According to the multi-store model of memory, which of the following is NOT a stage?
  - A. Sensory memory
  - B. Short-term memory
  - C. Perceptual memory
  - D. Long-term memory
2. Which technology is often used to examine brain activity related to cognitive processes?
  - A. Electrocardiography
  - B. Electroencephalography
  - C. X-ray imaging
  - D. CT scanning
3. Which of the following is a brief storage system for sensory information?
  - A. Sensory memory
  - B. Short-term memory
  - C. Long-term memory
  - D. Working memory
4. What describes the tendency to attribute positive events to oneself and negative events to external factors?
  - A. Availability cascade
  - B. Self-serving bias
  - C. Cognitive rehearsal
  - D. Groupthink
5. What type of memory involves the recollection of specific events and their contextual details?
  - A. Semantic memory
  - B. Procedural memory
  - C. Episodic memory
  - D. Sensory memory

6. Which of the following is NOT a method used by cognitive researchers to measure mental processing?
- A. Speed of hand movements
  - B. Accuracy of responses
  - C. Response time
  - D. Brain visualization measures
7. What is a characteristic of algorithms in problem-solving?
- A. They can lead to varying outcomes
  - B. They are not guaranteed to provide a solution
  - C. They require precise steps for successful resolution
  - D. They are based on instinct and experience
8. In cognitive psychology, which concept refers to our understanding of the typical features that characterize members of a category?
- A. Exemplar theory
  - B. Prototype theory
  - C. Hierarchical structure
  - D. Semantic memory
9. An issue in language comprehension due to variation in how phonemes are produced is known as \_\_\_\_.
- A. Superordinate problem
  - B. Invariance problem
  - C. Prototype issue
  - D. Subordinate challenge
10. What does "on the tip of your tongue" refer to in cognitive psychology?
- A. Retrieval failure
  - B. Recognition memory
  - C. Implicit memory
  - D. Overlearning

## Answers

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1. C
2. B
3. A
4. B
5. C
6. A
7. C
8. B
9. B
10. A

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## Explanations

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1. According to the multi-store model of memory, which of the following is NOT a stage?

- A. Sensory memory
- B. Short-term memory
- C. Perceptual memory
- D. Long-term memory

The multi-store model of memory, proposed by Atkinson and Shiffrin, describes three distinct stages of memory: sensory memory, short-term memory, and long-term memory. Sensory memory is the initial stage that holds sensory information for a very brief period. Short-term memory, also known as working memory, temporarily holds and processes information. Long-term memory is the stage where information is stored more permanently and can be retrieved later. The option related to perceptual memory does not align with this model, as it does not represent a recognized stage of memory in the framework proposed by Atkinson and Shiffrin. Instead, perceptual memory generally refers to how sensory information is interpreted and understood but is not categorized as a separate stage in the multi-store model. Understanding this structure is crucial in cognitive psychology as it highlights how information flows through memory systems and helps in comprehending processes such as encoding, storage, and retrieval.

2. Which technology is often used to examine brain activity related to cognitive processes?

- A. Electrocardiography
- B. Electroencephalography
- C. X-ray imaging
- D. CT scanning

Electroencephalography (EEG) is a technology specifically designed to measure electrical activity in the brain through electrodes placed on the scalp. It provides temporal resolution in tracking brain activity, making it particularly useful for investigating cognitive processes. EEG captures the rapid fluctuations in brain activity that correspond to various mental functions, such as attention, perception, and decision-making. This method is distinctive among the options provided, as it allows researchers to observe the timing and patterns of brain responses in real-time when individuals engage in cognitive tasks. The results are crucial for understanding how different areas of the brain interact during various mental activities. In contrast, the other technologies listed are not primarily focused on measuring brain activity related to cognitive processes. For instance, electrocardiography primarily tracks the heart's electrical activity, while X-ray imaging and CT scanning are mainly used for visualizing internal structures and diagnosing physical conditions rather than real-time neural activity. These distinctions help emphasize why EEG is the preferred method for studying cognitive processes in the realm of cognitive psychology.

3. Which of the following is a brief storage system for sensory information?

- A. Sensory memory
- B. Short-term memory
- C. Long-term memory
- D. Working memory

Sensory memory is the correct choice because it refers specifically to the very brief initial storage of sensory information that allows individuals to retain impressions of sensory stimuli after the original stimulus has ended. This type of memory is crucial for processing sensory input, as it captures information such as sights, sounds, and smells for a very short duration, typically less than a second for visual stimuli and slightly longer for auditory information. The other types of memory cited in the options have different characteristics and functions. Short-term memory holds information temporarily for processing and manipulation, but it typically lasts longer than sensory memory and has a limited capacity. Long-term memory is designed for the storage of information over extended periods and can hold much larger quantities of data compared to sensory memory. Working memory is a more complex system that actively maintains and manipulates information necessary for cognitive tasks, but again, it is a step beyond the mere storage function of sensory memory. Thus, sensory memory is uniquely characterized by its brief nature and specific role in the initial stages of information processing.

4. What describes the tendency to attribute positive events to oneself and negative events to external factors?

- A. Availability cascade
- B. Self-serving bias
- C. Cognitive rehearsal
- D. Groupthink

The tendency to attribute positive events to oneself while relegating negative events to external factors is known as self-serving bias. This cognitive bias enables individuals to protect their self-esteem by enhancing their perception of their own actions and contributions when outcomes are favorable. For instance, if someone receives a compliment for a job well done, they might attribute this success to their hard work and intelligence. Conversely, if they face criticism or a failure, they may attribute it to external circumstances, such as bad luck or the actions of others. This perspective helps maintain a positive self-image, as individuals strive to view themselves in a favorable light. Self-serving bias plays a significant role in shaping how people interpret their experiences and can influence behaviors and decisions, particularly in social and academic contexts. In contrast, availability cascade refers to a self-reinforcing process where the availability of certain information increases its perceived credibility, cognitive rehearsal focuses on practicing information in one's mind to enhance retention, and groupthink describes the phenomenon where groups prioritize consensus over critical analysis, often leading to poor decision-making. Each of these concepts operates in different dimensions of cognition and social behavior, distinct from the self-enhancing tendencies captured by self-serving bias.

5. What type of memory involves the recollection of specific events and their contextual details?

- A. Semantic memory
- B. Procedural memory
- C. Episodic memory
- D. Sensory memory

The recollection of specific events along with their contextual details is characteristic of episodic memory. This type of memory is a subcategory of long-term memory that allows individuals to remember personal experiences, including the time and place of the event, as well as the emotions and sensations that accompanied it. For instance, being able to vividly recall a family vacation or a significant life event with specific details exemplifies episodic memory. In contrast, semantic memory refers to the storage of general knowledge and facts about the world that are not tied to personal experience, such as knowing the capital of France or understanding the concept of gravity. Procedural memory involves the skills and actions we perform automatically, like riding a bike or playing a musical instrument, which do not rely on conscious recollection of events. Sensory memory captures fleeting impressions from our senses but does not provide the detailed context necessary for recollecting specific events. This highlights why episodic memory is the correct answer regarding the specified type of recollection.

6. Which of the following is NOT a method used by cognitive researchers to measure mental processing?

- A. Speed of hand movements
- B. Accuracy of responses
- C. Response time
- D. Brain visualization measures

Cognitive researchers employ various methods to measure mental processing, each focusing on different aspects of cognition. Speed of hand movements is not typically used as a direct measure within cognitive research. Instead, the emphasis often centers on measurable cognitive responses that shed light on internal mental processes. For instance, accuracy of responses is commonly assessed to understand how reliably participants are processing information and making decisions. This can reveal the effectiveness of cognitive tasks or the impact of different variables on performance. Response time is another crucial metric; it provides insight into how quickly an individual can retrieve information or perform a task, which is directly tied to cognitive processing speed. Additionally, brain visualization measures, such as fMRI or EEG, are used to observe the neural correlates of cognitive processes. These methods allow researchers to study the brain's activity as it performs various tasks, enhancing understanding of the underlying mechanics of thought. In contrast, measuring the speed of hand movements does not specifically address cognitive processing itself but rather focuses on a physical execution of a response, which may not sufficiently reflect the complexity or intricacies of mental operations. This makes it an inappropriate choice when identifying methods specifically aimed at measuring cognitive processes.

7. What is a characteristic of algorithms in problem-solving?

- A. They can lead to varying outcomes
- B. They are not guaranteed to provide a solution
- C. They require precise steps for successful resolution
- D. They are based on instinct and experience

Algorithms are characterized by a strict and systematic set of rules or procedures that must be followed to arrive at a solution. They are designed to be thorough and methodical, ensuring that each step contributes directly to achieving the desired outcome. This precise nature is what distinguishes algorithms from other problem-solving methods, such as heuristics, which may rely more on intuition than on established procedures. The clarity and precision of algorithms mean that, when applied correctly, they consistently produce the same result for a given problem, although they may require extensive time and resources in more complex scenarios. This characteristic underscores the significance of having defined steps in the process, emphasizing accuracy and reliability in problem-solving across various contexts in cognitive psychology.

8. In cognitive psychology, which concept refers to our understanding of the typical features that characterize members of a category?

- A. Exemplar theory
- B. Prototype theory
- C. Hierarchical structure
- D. Semantic memory

Prototype theory is the concept that refers to our understanding of the typical features that characterize members of a category. This theory posits that when we think of a category, we form a mental representation or 'prototype' that best exemplifies the most common attributes of that category. For example, when considering the category of "birds," one might think of a robin or sparrow, which possess the most representative characteristics of birds, such as being small, having feathers, and being able to fly. Prototype theory is influential in cognitive psychology because it explains how people categorize objects and concepts based on their similarities to this idealized representation. It emphasizes the abstracted nature of category formation, contrasting with other theories such as exemplar theory, which suggests that we store specific examples of category members rather than an average representation. By understanding prototype theory, we can grasp how people organize knowledge, make decisions, and recognize patterns in their environment using these mental representations as reference points. This approach is fundamental in explaining various cognitive processes related to categorization, perception, and memory.

9. An issue in language comprehension due to variation in how phonemes are produced is known as \_\_\_\_\_.

A. Superordinate problem

B. Invariance problem

C. Prototype issue

D. Subordinate challenge

The correct choice is based on the concept of the invariance problem, which pertains to the challenges faced in language comprehension due to the variable ways phonemes are pronounced in spoken language. When individuals speak, they often produce phonemes that can vary significantly based on factors such as accent, intonation, speed of speech, and context. This variability can make it difficult for listeners to recognize the phonemes consistently, leading to difficulties in understanding spoken language. The invariance problem highlights that even though the physical manifestations of sounds may differ, listeners must be able to identify and interpret these variable sounds as representing the same phoneme. This ability is crucial for effective communication and understanding, as it reflects the cognitive processes involved in decoding spoken language despite these variations. In contrast, the other options refer to different concepts that do not specifically address the issues arising from phoneme production in language comprehension. Superordinate problems relate to categorization at a higher level, prototype issues involve the cognitive representation of categories based on typical examples, and subordinate challenges pertain to recognition at a more specific level. Each of these concepts is important in cognitive psychology, but they do not engage with the particular challenges posed by the variability of phoneme production.

10. What does "on the tip of your tongue" refer to in cognitive psychology?

A. Retrieval failure

B. Recognition memory

C. Implicit memory

D. Overlearning

The phrase "on the tip of your tongue" refers to a common experience in which a person is unable to retrieve a piece of information from memory, even though they feel confident that they know it and can almost articulate it. This phenomenon is closely related to retrieval failure, which occurs when the brain struggles to access stored information. The individual may have a sense of knowing the answer or recalling similar information but cannot fully articulate the desired memory. This retrieval failure often happens when certain cues or contexts needed to jog the memory are missing, demonstrating the complexities of how memory retrieval works. In such instances, the person might feel frustrated or anxious about being unable to recall the information, which further illustrates the nature of memory and its retrieval processes. Understanding this concept helps to highlight the distinction between different types of knowledge in cognitive psychology, such as recognition memory, which is the ability to recognize previously encountered information, or implicit memory, where knowledge influences behavior without conscious awareness. The phenomenon described does not involve overlearning, which refers to continued practice or study beyond initial mastery of the material.