Question 2

Savannah is a junior in high school and is preparing for an exam in her beginning Japanese course. The exam will consist of both written and spoken portions. Although it is her first course in Japanese, Savannah is confident that she will do very well on the exam.

- A. Describe how each of the following relates to Savannah's successful learning and performance.
 - Broca's area
 - Use of phonemes
 - Modeling
 - Chunking
- B. Describe how each of the following may hinder Savannah as she prepares for and takes the exam.
 - Encoding failure
 - Age and language acquisition
- C. After the exam, Savannah tells her family and friends that she believes that she spoke fluently and did extremely well on the exam. Describe how each of the following concepts may have influenced her opinion.
 - Self-efficacy
 - Confirmation bias

General Considerations

- 1. Answers must be presented in sentences, and sentences must be cogent enough for students' meaning to be apparent. Spelling and grammatical mistakes do not reduce students' scores, but spelling must be sufficiently accurate for the reader to be convinced of the word intended.
- 2. Within a point, students will not be penalized for misinformation unless it directly contradicts or obscures correct information that would otherwise have scored the point.
- 3. Students can score points only if information is presented in context. This means that they must clearly convey which part of the question is being answered before a point can be earned. Terms such as "She," "Her," "Savannah," or "the test" are all sufficient to establish context. However, it is also possible to infer context from the order of the essay, if it is consistent with the order of the question.
- 4. Definitions without application are not sufficient to score points. A definition may contribute to the answer, but students must also provide a specific application related to some aspect of the question, independent of the definition for example, score: "Encoding failure happens when information is not put into memory. If information is not encoded, it cannot be recalled for the test" (correct definition supports specific application).
- 5. Because definitions alone do not earn credit, if students provide an incorrect definition but a correct application, score the point based on the application.
- 6. Every point requires students to relate their answers to the provided scenario.
- 7. In part A students may address either Savannah's successful learning of Japanese **OR** her performance for each point. In part B students may address either how she prepares for **OR** takes the exam for each point.
- 8. The examples provided in the following scoring guidelines for each point are not to be considered exhaustive.

Question 2 (continued)

Point 1: Broca's area

To earn this point, students must accurately describe how Broca's area relates to Savannah's successful learning or performance. They may describe:

- A. Speech production (e.g., speaking, writing, clear pronunciation, grammatically correct statements, appropriate pacing, generation of motor responses that move the facial muscles that are necessary for speech), **OR**
- B. Speech/language comprehension, OR
- C. Mirror neurons.

Example: "Broca's area is responsible for helping her speak Japanese."

Do not score

• General references to "language" or "learning" alone. Example: "Broca's area helps Savannah learn Japanese."

Point 2: Use of phonemes

To earn this point students must accurately describe how the use of phonemes relates to Savannah's successful learning or performance. They may describe:

- A. Production or recall of Japanese sounds (e.g., smallest unit of sound), OR
- B. Combining sounds to create Japanese words, OR
- C. Recognition of correct and incorrect Japanese sounds. Example: "Savannah will have to combine sounds to make different Japanese words."

Do not score

- Descriptions of morphemes (units of meaning).
- The term "phonemes" alone in place of "sounds."

Point 3: Modeling

To earn this point students must accurately describe how modeling relates to Savannah's successful learning or performance. In describing modeling, they may score this point by:

- A. Demonstrating Savannah's imitation/copying/repetition of a model,
 - Example: "Savannah imitated how her teacher said Japanese words," **OR**
- B. Explaining that the teacher or other students act as a behavioral model, *Example:* "The teacher demonstrated how to speak Japanese."

Do not score

- The term "modeling" alone in place of "imitating" or "copying."
- The term "modeling" alone in place of "demonstrating" or "showing."

Point 4: Chunking

To earn this point students must accurately describe how chunking relates to Savannah's successful learning or performance. They may describe:

- A. Learning or recall of language by grouping/combining material (e.g., the use of a specific strategy, such as an acronym), **OR**
- B. The resulting increase in the amount of information that can be held in short-term memory. *Example:* "To remember the Japanese words better, Savannah could group all of the words that start with the same sound."

Question 2 (continued)

Do not score

- The term "chunking" alone in place of "grouping" or "combining."
- The phrase "breaking information into smaller pieces." This does not score because chunking involves grouping. However, if students discuss breaking down a large amount of information into smaller, more manageable groups, it will score.

Point 5: Encoding failure

To earn this point students must accurately describe how encoding failure may hinder Savannah's exam preparation or test performance. They may explain:

- A. The failure to process/put the information into memory, **OR**
- B. That information not attended to will not be processed, **OR**
- C. That shallow processing leads to more forgetting.

 Example: "Savannah never put the words into memory in the first place."

Do not score

- The term "encoding" alone in place of the phrase "put the information into memory."
- Encoding failure as occurring when information is not "encoded correctly" and leads to "recall of incorrect information."

Point 6: Age and language acquisition

To earn this point students must accurately describe how Savannah's age might hinder her language acquisition while preparing for or taking the exam. They may explain that:

- A. Older students are less successful in acquiring a language, **OR**
- B. The critical/sensitive period for language acquisition has passed, **OR**
- C. Older students are more likely to speak a second language with the accent of their first-learned language.
 - *Example*: "Savannah will have a harder time learning Japanese because she has passed the critical period."

Do not score

• Responses that focus on the memory of vocabulary as negatively influenced by age. The focus must remain on language acquisition.

Point 7: Self-efficacy

To earn this point students must accurately describe how self-efficacy may have influenced Savannah's positive opinion of her test performance. They may describe Savannah's:

- A. Personal belief, or expectancy, that she can perform a behavior or task (demonstrates a potential), **OR**
- B. Personal belief, or expectancy, about her ability (demonstrates a potential). *Example*: "Savannah believed she could do well on the test."

Do not score

- Perceptions of past behavior alone. Example: "Savannah thought she did well on the test."
- *Self-esteem* (perceptions of overall worth) or *self-serving bias* (taking credit for success because of positive internal attributions while ignoring failures that result from external forces).

Question 2 (continued)

Point 8: Confirmation bias

To earn this point students must accurately describe how confirmation bias may have influenced Savannah's positive opinion of her test performance. They may explain that Savannah is:

- A. Selectively attending to information that supports her preconceived beliefs, **OR**
- B. Minimizing contradictory evidence, **OR**
- C. Selectively recalling information to support her existing beliefs. *Example*: "Savannah may only remember the questions she did well on."

Write in the box the number of the question you are answering on this page as it is designated in the exam.

2 AA loFl

In her study of Japanese, Savamon uses a portion of her brain called the Anda's area in order to vocalize
the words and communicate in Terrorgere. Without a functional Bria's area, she would not be able to do well on the
Sportin parties at the examination. Severinch probably began has studied by becoming familiar with the provinces
of Tapanese, or the smallest unit of speech. For example, in the English unis "chat," the phonesias include "ch,"
"a" and "t" Understanding how to pronounce individual property and to combine them into myell is integral to
learning a new language. Savannell's modeling of her for Japanese professor's pronounciations (internations allows
her to learn Tapaness more quickly through observation and imitation. I chanking is refer to a mnember device
and natural tendency for humans to cluster objects (or in Savannah's case, words) into meaninful units. For
example, since Japanese is presumably based on pretaral representations of words, Savannah might home use
charting to bear new characters in sets (seasons, places, etc.):
However, Somewhat still bright not perform well on the exam due to encoding failure, a which refers to
when the new information is not properly enteded or stored into long term memory for letter retrieval. For example,
14 Siminate does not study a particular writ as thoroughly as the officers, she may theyet how to say something
In Japaness on the examinat because she has never seen it before, but because it tailed to encode and she
forget it. Also, since Savannahis a junior in high school, a relatively late stage to be learning an entirely
different foreign language like Tapanese, her age may hinder her ability for language acquisition. Typically,
temporage is most rapidly absorbed at very young ages, and as one grows older, it becomes increasingly more
difficult to lown languages.
After The exam, self-efficiely may inflate Savinnah's feilings on how well the did on her examination.
she may feel overconfident in her own abilities. Also, confirmation bias The Fendency only to pay here to
endance that confirms one's opinions, may lead her to believe that she did better than she actually dici-
Sovement may only remember the instances in which she immediately knew the answer and felt very proud
and confideril for having clone to, while neglecting the interment in which the was mustice about her responses

A. It Savannah's Broca's area is working properly, wher Spoken portions was successful phonenes, that is language spoken portions N9U9 modeling, which is understanding Japanese kinguade NS MYTEN WITH portion will be good Savannah temember more remembering which language no together pertormance N9169 encolling failure happens to Savannah, the exam HETEKT 70 150

Write in the box the number of the question you are answering on this page as it is designated in the exam.
B Encoding failure - is When Material that is being
B Encoding failure is When Material that is being encoded into Memory is encoded whose or mis
encoded. Savannah May have an encoding failure. When She mixes up the meanings of 2 Words
When She Mixes up the Meanings of 2 Words
While Studying.
Age and Language Acquisition- Says that We Most
learn language at an early age. As I've age it
is harder and harder for us to learn language.
Becque savannah is a Junior She Will have
a More difficult time learning Jalanese then if
She Was Joenser.

Write in the box the number of the question you are answering on this page as it is designated in the exam. 2CC 3 of 3
. Self efficacy - is believing Of conselves
More highly then we actually or. Savanneth May
More highly then we actually are. Savannech May Not have done as Uell on the test as She
believes,
Confination bias-Finding things that Support
our beliefs. Savannah has teld her
frends and family that She did Well, and the
Slee and say I bet you did very Well on the exam.
this makes Savaman Cofirm her belief that she
did Well.

AP® PSYCHOLOGY 2011 SCORING COMMENTARY

Question 2

Overview

This question required students to apply psychological concepts to a scenario describing how a high school student, Savannah, is learning Japanese. Savannah is preparing for an exam that requires written and spoken responses in Japanese. Students were asked to describe how certain aspects of language, learning, and cognition impact Savannah's abilities and perceptions. In part A they were required to describe how each of the following relates to Savannah's success in learning or performance: Broca's area, the use of phonemes, modeling, and chunking. Part B assessed students' understanding of the role of encoding and age in language acquisition, and part C evaluated their ability to apply the concepts of self-efficacy and confirmation bias.

Sample: 2AA Score: 7

This essay earned point 1 when the student explains how Broca's area plays a role in performance on the spoken portion of the exam. Point 2 was awarded when the student explains that individual phonemes, when combined, create words. The essay received point 3 when the student describes the Japanese professor's actions ("pronounciations [sic]/intonations") and imitation of those behaviors. Point 4 was earned when the student explains chunking as "cluster[ing] objects (or in Savannah's case, words) into meaninful [sic] units." Point 5 was granted when the student explains that a failure to process the information into memory will result in an encoding failure. The student explains that the best time to learn a new language is "at very young ages" and thus earned point 6. No credit was received for point 7 because the student refers to past behavior ("how well she did on her examination"). Point 8 was merited only when the student explains confirmation bias as the tendency to attend to evidence to confirm an opinion and links it to the scenario provided in the question.

Sample: 2BB Score: 4

Point 1 was awarded when the student links Broca's area to Savannah's ability to perform on the spoken portions of the exam. The essay gained point 2 when the student describes phonemes as the "basic units" of sound that make up the Japanese language. No credit was granted for point 3 because the student does not explain modeling, which is learning by observation. Point 4 was merited because the student describes chunking as "the ability to group things" for learning and links chunking to "remembering which symbols of the Japanese language go together to make specific words." The essay earned point 5 when the student explains that an encoding failure occurs if information is never processed into long-term memory. Point 6 is not attempted. The student explains that "[s]elf-efficacy may have ... influenced her [Savannah's] opinion about her grade" but does not correctly explain self-efficacy as a personal belief about one's ability, so point 7 was not awarded. Although the student explains that confirmation bias involves a belief, the explanation does not include information about selectively attending to confirming information, so the essay did not receive point 8.

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Question 2 (continued)

Sample: 2CC Score: 2

Although the student correctly relates Broca's area to speech, point 1 was not earned because the student does not apply the information to the scenario. Similarly, phonemes are identified as "the smallest part of language," but point 2 was not received because the student does not explain how phonemes relate to sounds in Japanese. Point 3 was awarded when the student explains how Savannah might learn Japanese by listening to tapes of a speaker and then imitating the pronunciation. The student explains that material can be broken down into parts, yet no credit was granted for point 4 because the student does not explain chunking as the grouping of content. The essay did not merit point 5 because the student describes encoding failure as incorrect encoding rather than a failure to process information into memory. Point 6 was earned when the student explains, "Because Savannah is a Junior she will have a more difficult time learning Japanese then [sic] if she was younger." Point 7 was not awarded because the student describes self-esteem rather than self-efficacy. The essay did not gain point 8 because the student does not describe some form of evidence that is used to confirm a belief.