AP® PSYCHOLOGY 2016 SCORING GUIDELINES

Question 2

General Considerations

- 1. Answers must be presented in sentences, and sentences must be cogent enough for the student's meaning to come through. Spelling and grammatical mistakes do not reduce a student's score, but spelling must be close enough so that the reader is convinced of the word.
- 2. A student can score points only if the student clearly conveys which part of the question is being answered. It is possible to infer what part of the question is being answered if the response is consistent with the order of the question.
- 3. Definitions alone are not sufficient to score points. An incorrect definition does not negate a correct explanation.
- 4. Within a point, a student will not be penalized for misinformation unless there are aspects of the student's explanation that *directly contradict* one another.
- 5. Rubric examples provided for each point are not exhaustive.
- 6. To earn a point, the student must describe each concept in a way that indicates understanding.

Part A: Explain how each of the following might help Danny succeed with this task. Definitions alone will not score.

Point 1: Distributed Practice

Student's response must indicate studying that is spaced out or spread out over multiple time periods for greater success.

- Score: "Spacing effect" as describing distributed practice.
- Score: "Not cramming" as describing distributed practice.
- Do NOT Score: References to grouping or chunking without an indication of spaced practice over time.

Point 2: A Mnemonic Device

Student's response must describe a technique or memory aid such as acronyms, method of loci, or chunking to help remember geographic terms for greater success.

o Note: Examples cannot be memory aids dealing only with rote rehearsal, but must have an association, connection, or meaning to something beyond the material being learned.

Point 3: Secondary Reinforcer

Student's response must include a *previously administered* secondary reinforcer such as money, grades, praise, etc., as a way of helping Danny succeed on this task.

- Score: References to negative secondary reinforcers, if they help Danny succeed.
- Do NOT Score: References to primary reinforcers, such as food, candy, water, etc.
- Do NOT Score: "Treat," "prize," or "reward" alone as examples of secondary reinforcers because they do not differentiate from examples of primary reinforcers.
 - o Note: Secondary reinforcers are conditioned (previously neutral).

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Question 2 (continued)

o Note: This is a behavior point, rather than a motivation point, so reinforcement must have strengthened behavior to prepare for the task. Secondary reinforcement administered for success on the geography quiz itself does not score.

Point 4: Big Five Trait of Conscientiousness

Student's response must indicate that enduring characteristics of conscientiousness would result in improved studying and/or performance. These could include traits of organization, discipline, diligence, responsibility, industriousness, readiness, preparedness, etc.

- Score: "He is organized" because this is an enduring personal trait of conscientiousness.
- Do NOT Score: "He has organizational skills" because this may not apply across all situations.
- Do NOT Score: Temporary states, motivation, or level of attention.

Part B: Explain how each of the following might hinder Danny's success with this task. Definitions alone will not score.

Point 5: Retroactive Interference

Student's response must show how learning new information may impair the recall of previously learned information, hindering Danny's success with this task.

o Note: The direction of interference must be correct.

Point 6: Self-fulfilling prophecy

Student's response must indicate that Danny's (or others') expectation that he would not do well hindered his success with this task.

- Do NOT Score: Negative outcomes caused by stress or factors other than expectations.
 - o Note: There must be both a negative expectation about success and a negative outcome.

Point 7: Sympathetic Nervous System

Student's response must refer to a negative impact due to the level of sympathetic arousal. This may be indicated through specific physiological responses such as increased heart rate, blood pressure, sweating, etc. on performance.

- Score: Excessive arousal (anxiousness, alertness) produced by the sympathetic nervous system.
- Score: Insufficient arousal produced by the sympathetic nervous system can hinder his success.
- Score: "Fight or flight" as example of arousal.
- Do NOT Score: "Nervous" or "nervousness" alone because it simply repeats wording in the question
- Do NOT Score: "Stress" alone because it is too general.

ANSWER PAGE FOR QUESTION 2

Question 2 is reprinted for your convenience.

2. In a geography course, Danny is required to learn the capital cities of every country of the world. At the end of the semester, the professor will randomly select twenty countries and give each student an oral quiz on the capital cities in front of the class.

Part A

Explain how each of the following might <u>help</u> Danny succeed with this task. Definitions alone will not score.

- · Distributed practice
- · A mnemonic device
- · Secondary reinforcer
- Big Five trait of conscientiousness

Part B

Explain how each of the following might <u>hinder</u> Danny's success with this task. Definitions alone will not score.

- Retroactive interference
- · Self-fulfilling prophecy
- Sympathetic nervous system

that will hausen and norminacan help-True sympathetic nervous
that will happen and norming can help the sympathetic nervous system, a.k.a. fight or Flight, is active in situations of
high arouserl. As part of the autonomic persons eystem
it works involuntarily to protect the body from danger. If
Dunny is really nearous about the guiz his body will
release a lest of advanatine and his bidly mill be
too aroused to perform at its best since the tack requires
much less energy and arousal to complete than what
he is being provided with.

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Answer PAGE FOR QUESTION 2 2.A.D. istributed practice is spreading out
practice over time to allow the slow, deep
bearing/memorization of something. In this case
distributed practice my help Danny because
if he learns two cities every day up until
the test he will not feel stressed the
night before and try to crapm learn
all the capitals. A mnemonie device is a
tool used to help remember something in
a clever way. For example, Wilhelm Wandt
was a structuralist, so to unember this the
mnemonie device " Wilhelm, wundt you help me
build my structure? " is a clever way to remember
this feet. If Danny uses his form of device
for the capitals he can help himself easily
memorize them in a semi-fun way as well.
Mnemonies relieve some of the pressur of
of pure memorization and allow catchy slogans
or abreviations to be the memory tool.
A Secondary reinforcer is something like money, that is not used to maintain health
money, that is not used to maintain health
directly like food on drink. A Secondary
reinforces a behavior by providing
a reward. En Mis case, it Danny was
perior told he would get \$100 it he
gets an A on The quiz, he will be
motivated to study and do well. The Big
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Question 2 is reprinted for your convenience.

2. In a geography course, Danny is required to learn the capital cities of every country of the world. At the end of the semester, the professor will randomly select twenty countries and give each student an oral quiz on the capital cities in front of the class.

Part A

Explain how each of the following might <u>help</u> Danny succeed with this task. Definitions alone will not score.

- Distributed practice
- A mnemonic device
- Secondary reinforcerBig Five trait of conscientiousness

Part B

Explain how each of the following might <u>hinder</u> Danny's success with this task. Definitions alone will not score.

Retroactive interference
 Self-fulfilling prophecy - Says cank
 Sympathetic nervous system - get nevvens

Five trait of conscientionsness is wanting to do
well for yourself and others. It Danny's
porents support him + help hem, as well as
Danny making a study group of his peers
m the class his could help him to better
learn the capitals, as he feels a responsibility to them as well a
B. to Metroactive interference is a social
influence on Danny Most would lead him to
do poorly. It he hears others didn't do
well on the quie, or that others aren't studying
he will lose motivation of contiolener, hindering
his success A self-fulfilling prophecy is
when a person states that they can't
do something and virtually gives up

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and Rufills what they said, about how
they ear't do it. If Danny tells himself
"It doesn't matter it I study, Fin going to
fail anyways " he won't study, and then
will fail, thus hindering his success. there The
Sympathetic nervous System is the system
related to the bodies "Fight o- Plight"
response. This causes the body to speed up respiration, heart rate increases, sweak, and
up respiration, heart rate increases, sweat, and
maybe even throw up. It Danny gets
incredible members arma into the author
body will kick into this state, and he may literally "Plight" and run away, or get visiably sweaty and siet, forcine him to not be able to bous and calmly recall his capitals from momony, an ultimately
way literally "Plight" and run away, or get
visiably sweaty and sick, forcing him to not
be able to focus and calmly recall
his capitals from monory, an ultimately
hindering his success on the quiz.
4

ANSWER PAGE FOR QUESTION 2 Panny demonstrates distributed practice, spreads out the the capitals of locater results will see 10+ of Enformace forget a at Mnemonic devices are also because an object or as maginina Richmond, Danny eat a as an incentive "really enjoy learning 000000 more capitals Danny extention while ne learn emonstrating CANSCIENTIONSHESS and

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2. In a geography course, Danny is required to learn the capital cities of every country of the world. At the end of the semester, the professor will randomly select twenty countries and give each student an oral quiz on the capital cities in front of the class.

Part A

Explain how each of the following might <u>help</u> Danny succeed with this task. Definitions alone will not score.

- Distributed practice
- · A mnemonic device
- · Secondary reinforcer
- · Big Five trait of conscientiousness

Part B

Explain how each of the following might <u>hinder</u> Danny's success with this task. Definitions alone will not score.

- Retroactive interference \
- Self-fulfilling prophecy
- · Sympathetic nervous system

then he may not remper anything that
he learned before he got the concussion
ne learned before he got the concussion and this will hinder his success because
he will have to learn, and process
the information all over again. Danny
also may be to focused on the self -
Pulfilline prophecy, and want to rearn
the capitais only to get a good grade. This
is a negative reinforcer, and it many hinder
his performance be course he course doesn't
have an correct interest in Gaining
Knowledge on the capitals for his todostantion
satisfaction, he is interested in gaining
Knowledge so he noesn't fail.

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AP® PSYCHOLOGY 2016 SCORING COMMENTARY

Question 2

Overview

The question required students to respond to two aspects of a scenario that described Danny's upcoming geography quiz on countries and capitals.

The question was composed of two parts: Part A required the student to show understanding of learning and cognition, in terms of distributed practice, a mnemonic device, a secondary reinforcer, and the Big Five trait of conscientiousness, by explaining how these concepts might help Danny succeed with this task. Part B required the student to discuss how elements of memory (retroactive interference), motivation (self-fulfilling prophecy), and physiology (sympathetic nervous system) might hinder Danny's success with this task. For each score point, students were required to demonstrate an understanding of the concept and an ability to apply it to the appropriate context.

Sample: 2A Score: 7

The response earned point 1 because it discusses the rehearsal of material over time, and not cramming. The response earned point 2 because it refers to a creative way to connect the countries with capitals, which helps Danny succeed. The response earned point 3 because it refers to money as a previously administered secondary reinforcer for studying, which would help Danny on the quiz by making him more likely to study for it. The response earned point 4 because it indicates diligence as an enduring characteristic that will help Danny succeed. The response earned point 5 because it explains that as Danny studies more capitals, he may have difficulty remembering the ones he learned in the past. The response earned point 6 because it describes an expectation of failing the quiz and an outcome of failing the quiz. The response earned point 7 because it describes the activation of the sympathetic nervous system and excessive arousal, which will prevent Danny from performing at his best.

Sample: 2B Score: 4

The response earned point 1 because it explains that distributed practice would help Danny, and that he should spread out his study over a number of days. The response earned point 2 because it describes a mnemonic device as a creative memory tool that Danny can use, such as a catchy slogan or abbreviation. The response did not earn point 3 because it describes secondary reinforcement as being administered after the quiz, rather than prior, as a way to increase studying for the quiz. The response did not earn point 4 because it describes a temporary state of wanting to do well, rather than an enduring characteristic of conscientiousness. The response did not earn point 5 because it does not demonstrate understanding of retroactive interference. The response earned point 6 because it states that if Danny believes that he will fail, then he will not study, and then he will fail. The response earned point 7 because it explains that Danny's sympathetic nervous system will create specific physiological arousal, hindering his success.

Sample: 2C Score: 2

The response earned point 1 because it describes distributed practice as spreading out studying, and not cramming, which will help Danny succeed. The response earned point 2 because it describes associations or connections that can be made in order to remember capitals. The response did not earn point 3 because it does not describe a previously administered secondary reinforcer as a way to help Danny succeed. The

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Question 2 (continued)

response did not earn point 4 because it only describes a temporary level of attention, rather than an enduring characteristic of conscientiousness. The response did not earn point 5 because it does not explain how new information would hinder recall of old information in Danny's studying. The response did not earn point 6 because it does not explain a specific negative expectation and a negative outcome. Instead it states that Danny's studying is only for a good grade. The response did not earn point 7 because it does not describe physiological arousal of the sympathetic nervous system as hindering Danny's success on the quiz.