

Question 1: Concept Application**7 points****General Considerations**

- Answers must be cogent enough for the meaning to come through. Spelling and grammatical mistakes do not reduce a score, but spelling must be close enough so that the reader is convinced of the word.
- A response can earn points only if the student clearly conveys what part of the question is being answered. It is possible to infer the part of the question being answered if it is consistent with the order of the question.
- The response must apply the concept to the prompt. A definition alone will not earn the point, but a clear definition can support the application.
- Examples provided in the Scoring Guidelines for each of the points are not to be considered exhaustive.
- Within a point, a response will not be penalized for incorrect information unless it *directly contradicts* correct information that would have otherwise earned a point. For example, if a response applies a concept in two contradictory ways (such as identifying both the independent and dependent variables as the independent variable or describing proactive interference as interference from both older and newer information), the point is not earned.

NOTE: In certain cases, a response will not score if it includes a correct answer amongst multiple incorrect answers related to the same general concept/theory (e.g., a response that describes the Big Five trait of conscientiousness as being diligent, trusting, highly emotional, outgoing, and intellectually curious).

- Within a bulleted question part, if the response addresses details from a scenario other than the one in the prompt, the point is not earned.

Part A Gavin's parents took him to his favorite science museum, and he explored all of the exhibits. One of the interactive exhibits featured glass marbles. He grabbed a large marble and tried to bounce it on the ground. At one point during the visit, he became separated from his parents, and it took a few minutes for them to find him. Later that night, he drew a colorful picture of the exhibits at the museum. The next day, Gavin brought his picture with him to preschool. While his grandmother drove, Gavin talked to her about the picture.

Explain how Jean Piaget's concept of assimilation could relate to Gavin's experience with the glass marble.

1 point

Response must indicate that Gavin attempts to treat the glass marbles like "balls" by trying to bounce them on the ground.

Acceptable explanations include:

- Gavin thought the marble would bounce like all other balls.

Unacceptable explanations include:

Responses that refer to schema accommodation.

- Gavin now has a schema for "glass marbles" and knows they don't bounce like "balls."
- Gavin thought the marbles were like bouncy balls, so he tried to bounce them. Then he changed his schema when he learned that glass marbles are different and cannot be bounced.

Explain how egocentrism could relate to how Gavin interacted with his grandmother in the car.

1 point

Response must indicate that Gavin only considers his own perspective or assumes that others know what he knows when interacting with his grandmother.

Acceptable explanations include:

- Gavin holds up the picture in a way where he is the only one who can see it, but he thinks his grandmother can see it.
- Gavin talks about the museum trip from his perspective and doesn't recognize his grandmother is busy driving.

Unacceptable explanations include:

The response refers to Gavin being selfish.

- Gavin does not care what his grandma thinks because all he cares about is the picture he drew.

The response refers to Gavin telling his grandmother about the experience without referencing a lack of perspective.

- Gavin tells his grandmother all about the trip to the museum.

Explain how avoidant attachment could relate to Gavin when he was separated from his parents.

1 point

Response must indicate a lack of distress when separated from his parents.

Acceptable explanations include:

- Gavin didn't get upset or cry when he was separated from his parents.
- When separated from his parents, Gavin spent the time playing by himself at different exhibits.

Unacceptable explanations include:

- Gavin was very fearful and anxious when his parents left him.

Part B Explain how each of the following terms could relate to Gavin in this scenario.

Serial position effect**1 point**

Response must indicate that Gavin recalls information from the beginning or ending of his experience better than information that is in the middle of his experience at the museum.

Acceptable explanations include:

- Gavin remembered the exhibits he visited at the beginning of the day better.
- Gavin remembered the exhibits he visited at the end of the day better.
- Gavin had trouble remembering which exhibits he visited in the middle of the day.
- Gavin remembered the exhibits he visited at the beginning and end of the day better than the ones in the middle of the day.

Unacceptable explanations include:

Responses that refer to primacy or recency effects without reference to better recall.

- Gavin remembered the exhibits he visited at the beginning of the day.

Motor cortex**1 point**

Response must indicate that Gavin's motor cortex controls his movements.

Acceptable explanations include:

- *Gavin uses more of his motor cortex to use his fingers to draw the picture.*
- *Gavin uses his motor cortex to grab the marble.*

Unacceptable explanations include:

- *Gavin moves a lot when he plays.*

Cognitive map**1 point**

Response must indicate that Gavin formed a mental picture/layout/orientation/representation of the museum or another location related to the scenario.

Acceptable explanations include:

- *Gavin remembered where the entrance was to the museum because of his mental map.*
- *Gavin has created a mental picture of the museum to help him draw an accurate picture of the layout.*

Unacceptable explanations include:

- *Gavin creates a cognitive map that helps him navigate around the museum.*

Cones in the retina**1 point**

Response must indicate that Gavin's cones allow him to see color and/or detail (e.g., acuity, clarity, sharpness of vision).

Acceptable explanations include:

- *Gavin is able to create his picture because the cones in his retina enable him to see color and detail.*

Unacceptable explanations include:

- *Gavin uses his cones to see well.*
- *Gavin can see movement out of the corner of his eye.*

Total for question 1 7 points