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- 1. List in order and explain each of the five basic steps of the scientific method.
- 2. Define nature and nurture and give an example of each. Also describe the nature–nurture debate.
- 3. Describe the perspective most modern developmentalists take on the nature–nurture debate and explain epigenetics.
- 4. Define a critical period and a sensitive period. Explain the difference between the two periods, and give an example of each.
- 5. Explain Bronfenbrenner's ecological-systems theory and describe his five systems.
- 6. Define cohort, explain its effects, and give an example of one.
- 7. Describe culture and explain why researchers interested in human development study different cultures.
- 8. List at least six factors that have been linked to depression.
- 9. Define and discuss the term plasticity as it relates to human development. What factors influence plasticity in development? Offer at least one example of plasticity that has operated or is operating in your own life.
- 10. Imagine you are interested in the relationship between age and reading ability for children at 8 and 12 years old. Briefly define cross-sectional design and summarize how you could test this relationship using that design.
- 11. What practices must be built into a research study to protect participants?
- 12. Define correlation and give an example. Can one determine cause and effect from correlations? Explain why or why not.

13. What are ethics and why are ethical standards so important to scientific research?

## **Answer Key**

1. Step 1: Begin with curiosity. Pose a question based on a theory, prior research, or personal observation. Step 2: Develop a hypothesis, which is a specific research question that can be tested through research. Step 3: Test the hypothesis. Design and conduct research to gather empirical evidence (data). Step 4: Draw conclusions. Using the evidence gathered in the research, conclude whether the hypothesis is supported or refuted. Step 5: Report the results by sharing the data, conclusions, and alternative explanations with other scientists.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
List steps of	States five of the steps	States three of the	States less than three
scientific method in	in order	steps in order	steps or does not state
order			the steps in order
Explain each step	Describes the five	Describes three steps	Describes less than
	steps		three steps or does not
			describe steps
			accurately

2. Nature refers to the influence of genes on a person, and nurture refers to environmental influences on a person. Environmental influences include the health and diet of the embryo's mother and continuing lifelong, including family, school, community, and society. An example of nature would be having a gene that predisposes one to addiction. An example of nurture would be having that gene but avoiding addictions as a result of not being exposed to abuse or parental addictions. The debate concerns how much of any person's characteristics, behaviors, or emotions is the result of genes and how much is the result of the person's experiences.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define nature and	Accurately defines	Accurately defines	Does not accurately
nurture	both terms and gives	one term and gives at	define both terms or
	an example of both	least one accurate	supply accurate
		example	examples
Describe the debate	Accurately describes	Accurately describes	Does not accurately
	both sides of the	one side of the debate	describe the debate
	debate		

3. Modern researchers have learned that neither nature alone nor nurture alone can provide a complete way to understand development. Both nature and nurture matter, as both genes and environment affect nearly every characteristic. Epigenetics refers to the factors that surround the genes and actually affect which genes get expressed. This means that one's environment influences the expression of some genes.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Researcher's	States modern	Is vague about	Incorrectly states
viewpoint	researchers' stance that	modern researchers'	modern researchers'
	both matter	stance	stance

Epi	igenetics	Defines the term and	Defines the term	Does not describe the
		clearly explains what it	without explaining	term or give an
		means	its meaning	explanation

4. A critical period is a time when something must occur to ensure normal development, and a sensitive period is a time when a specific developmental task occurs most easily. An example of a critical period would be the fetus growing arms and legs and hands and feet—this can occur only at a specific time in utero. Language development is an example of a sensitive period. It occurs most easily at a young age but can occur at a later age as well.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define and	Defines both periods;	Defines just one	Fails to define both
differentiate	differentiates between	period or is vague	periods or fails to
	them	about differentiation	differentiate
Examples	Gives a correct example	Gives a correct	Does not give any
	for both periods	example of either	examples
		period	

5. Bronfenbrenner believed that each person is affected by his or her social context. Over the course of his career, he identified five systems. The first is the microsystem (e.g., one's family and peer group), the second is the exosystem (school, clubs, and church), and the third is the macrosystem (larger social setting such as cultural values and economic policies). The fourth system, called the chronosystem, is the role of historical context, and the fifth system, the mesosystem, is the interaction that occurs between all of the other systems.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain ecological	Clearly states what the	Gives a vague	Is unable to describe
systems theory	theory is	explanation of the	the theory
		theory	
Identify the systems	Identifies the five	Identifies three of the	Identifies less than
	systems and gives an	systems or gives	three of the systems of
	example of	examples for three of	gives less than three
	microsystem,	the systems	examples
	exosystem, and		
	macrosystem		

6. A cohort is a group of people born within a few years of each other who move through time together. Cohorts travel through life affected by the interaction of their chronological age with the values, events, technologies, and culture of the era. Cohort examples will vary but should show an understanding of a cohort; the baby boom generation is the example given in the text. Other common examples include the Greatest Generation (people who lived through the Depression and WWII) and the Millennials (Generation Y, born between the early 1980s and the early 2000s). Another example would be Generation X, born between the early 1960s to the early 1980s.

Good (5 pts) Fair (3 pts) Weak (1-0 pts)
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	Explain cohort	Correctly defines	Defines cohort	Does not define cohort
		cohort and explains its	without explaining its	correctly
		importance on	affect on members	
		members		
	Give an example	Gives an example of a	Gives a vague	Gives an incorrect
		cohort	example of cohort	example or doesn't
L				give an example

7. Culture is a strong social construction, a concept created by a society. Such social constructions affect how people think and act—what they value, praise, ignore, and punish. Different cultures may view the same behaviors or phenomenon as either an asset or a deficit. Therefore, by studying different cultures, researchers can identify which patterns are universal among humans and which occur only in certain cultures. This provides insights into the effects of different environments.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe culture	Clearly describes	Gives a definition of	Does not define
	culture	culture without	culture
		describing it	
Explain why	Clearly explains why	Is vague about why	Does not explain why
researchers study	researchers study	researchers study	researchers study
different cultures	different cultures	different cultures	different cultures

- 8. Students should list any six of these 12 factors:
  - low serotonin level in the brain
  - low exposure to sunlight, especially in winter
  - being taken care of by a mother with postpartum depression
  - malnutrition (low hemoglobin)
  - a lack of close friends
  - serious diseases such as Parkinson's or AIDS or drugs to treat diseases
  - a life crisis (disruptive event)
  - death of a mother before age 10
  - absence of a father during childhood, especially due to divorce
  - siblings with eating disorders
  - poverty, especially in places with great disparity between the rich and poor
  - low cognitive skills

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
List factors related to	Gives six factors from	Gives four factors	Gives less than four
depression	list above	from list above	factors from list above

9. Plasticity is the molding of human traits while simultaneously maintaining some durability of identity. The idea of plasticity is that human development is an ongoing, ever-changing interaction between the body and mind and between the individual and every aspect of his or her environment. Influences that affect plasticity include culture, upbringing, and genes. The example should relate to some aspect of growth in one's life, such as how a high-functioning person on the autism spectrum can eventually earn a college degree. (The autism remains (durability), but with school and other societal interventions, the person can still achieve traditional milestones.)

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define and discuss	Defines and discusses	Defines or discusses	Cannot define or
plasticity	plasticity	plasticity	discuss plasticity
List factors that	Lists three factors that	Lists two factors that	Lists one or no factors
influence plasticity	influence plasticity	influence plasticity	that influence
			plasticity
Give plasticity	Gives an example of	Gives an example of	Does not give an
example	plasticity	plasticity	example of plasticity

10. A cross-sectional design compares groups of people of one age with at least one other group of people of another age at a specific point in time. It is faster than a longitudinal study because all of the data is immediately available. Ideally the participants should be matched at the same socioeconomic level.

To implement a cross-sectional design to test reading, first identify a group of children aged 8 and another group aged 12. Second, evaluate each individual child's reading ability. Finally, compare the children of various ages and look for differences.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define cross-	Describes cross-		Gives a vague or
sectional design	sectional design and section design but		incorrect description
	identifies that doesn't elaborate about		of cross-sectional
	participants should be having similar		design
	of a similar	socioeconomic status	
	socioeconomic status for participants		
Summarize how to	Identifies the three	Identifies two parts of	Identifies one part or
do the research	parts of the research	the research design	cannot identify the
	design		research design

11. Researchers must ensure that people's participation is 1) voluntary, 2) confidential, and 3) harmless. They must obtain the informed consent of all the participants. Informed consent means that participants must understand and agree to the procedures after being told of any risks involved. If children are involved, consent must be obtained from the children as well as their parents. Participants must also be allowed to end their participation at any time.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Summarize	States all three conditions;	States two conditions;	States one condition
practices to	describes informed	explains informed	fails to explain
protect	consent and that	consent or that	informed consent
participants	participants can end	participants can end	
	participation	participation	

12. A correlation exists between two variables when one variable changes (increases or decreases) as the other variable changes. Examples will vary but should illustrate this concept, such as the number of people who drown increases as the number of ice cream sales increases. It is impossible to determine cause and effect from correlations because even though correlations indicate a connection between two variables, they cannot

determine the reason for the connection since no other variables are controlled. In the example above, people drowning and ice cream sales both increase during hot weather, so the correlation is caused by neither variable.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define correlation	Gives a strong	Gives an adequate	Gives inaccurate or no
	definition for	definition for	definition of
	correlation	correlation	correlation
Give example of a	Offers a good example	Offers a vague or	Offers an incorrect or
correlation	of a correlation	weak example of a	no example of a
		correlation	correlation
Explain relationship	States that causation	Implies that causation	States that causation
between causation	cannot be determined	can be determined	can be determined
and correlation	from a correlation	from a correlation	from a correlation

13. Ethics are a set of moral principles and specific practices that protect both participants and the integrity of research. Ethical standards provide study participants with the assurance of informed consent and knowing that their participation is voluntary, confidential, and that they will not be harmed.

Ethics are also a vital part of the reporting process after the research has been conducted. Reports of findings should be accurate, and the study should be able to be replicated under the same conditions. Collaboration, replication, and transparency are essential ethical safeguards for all scientists.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define ethics	Defines ethics	Defines ethics only as they	Does not define ethics
		apply to participants or the	
		reporting process	
Explain the	States several ways in	Identifies only how ethics	Does not explain why
importance of	which ethics protect	are important for	ethical standards are
ethics	participants and how	participants or their	important
	ethics protect findings	importance on the reporting	
	and replication	process and replication	