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- 1. What is a *developmental theory*? Identify three things discussed in the text that a theory can do.
- 2. Describe similarities between Freud's theory of psychosexual development and Erikson's theory of psychosocial development. Next, describe ways in which these theories differ.
- 3. Describe *classical* and *operant conditioning*. Next, identify the researcher who proposed the concept of classical conditioning and the researcher who introduced the idea of operant conditioning.
- 4. Explain *social learning theory*. From where did this theory originate, and what does it emphasize? Next, describe the concept of *modeling*, and indicate at least three reasons that a model is likely to be copied.
- 5. List Piaget's four stages of cognitive development in order, and explain what Piaget believed facilitates intellectual advancement.
- 6. Define *information-processing theory*. How does this theory different from Piaget's theory of cognitive development?
- 7. Your textbook describes seven techniques used by neuroscientists to understand brain function. List and describe two of these techniques. Despite advancements in brain imaging, why are theories still needed to understand human development?
- 8. Describe what Vygotsky meant by "apprenticeship in thinking" and "guided participation." Give an example of each.
- 9. Define Vygotsky's "zone of proximal development," including how it relates to learning. Provide two examples.
- 10. Maggie works is a child-care teacher who works primarily with toddlers. Most of the children that Maggie works with are not yet toilet-trained. Explain the advice a psychoanalyst, behaviorist, cognitive theorist, and a sociocultural theorist would give Maggie regarding her approach to toilet training.

- 11. Describe the two biologically-based drives associated with evolutionary theory, and explain how selective adaptation relates to this theory. Be sure to explain the process of selective adaptation in your answer.
- 12. Define *eclectic perspective*, and provide an example of how a clinician might use this approach to explain a case of childhood aggression.
- 13. List and describe the five theories that have contributed to our understanding of human development.

## **Answer Key**

1. A developmental theory is a systematic statement of general principles that provides a framework for understanding how and why people change as they grow older. Theories can produce hypotheses, generate discoveries, and offer practical guidance.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Defines	Defines developmental	Gives a vague	Does not define a
developmental	theory	definition of	developmental theory
theory		developmental theory	
Identifies the	Tells the three things a	Tells two things a	Tells one thing or
three things a	theory can do	theory can do	nothing that a theory
theory can do			can do

2. Both Freud and Erikson proposed stage theories based on the belief that adult problems echoed childhood conflicts. However, Erikson's psychosocial theory had eight stages, while Freud's psychosexual theory had just four. Erikson named two polarities at each stage, and his stages encompassed the entire life span, while Freud's ended at adolescence. Erikson's theory also emphasized the influence of family and culture, while Freud's theory emphasized unconscious sexual urges.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Describes similarities	` <b>.</b>	<b>1</b>	Does not describe
		theories had stages	accurately how the
	based on the idea that		theories were similar
	adult problems echoed		
	childhood conflicts		
Describes differences	States all four ways in	States three of the four	States two or fewer
	which the theories	ways in which the	ways in which the
	differed	theories differed	theories differed or
			does not accurately
			describe how the
			theories differed

3. Classical conditioning is the learning process in which a meaningful stimulus is connected with a neutral stimulus that had no special meaning before conditioning. The person gradually reacts to the neutral stimulus with the same behavior as the meaningful one. Pavlov introduced the concept of classical conditioning. In operant conditioning, a person performs some action, and then a response occurs. If the response is pleasurable, the person is likely to repeat the action. If the response is unpleasant, the person is unlikely to repeat the action. Skinner is associated with operant conditioning.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Describes classical	Correctly	Correctly describes one	Does not describe either
and operant	describes both	type of conditioning	type of conditioning or
conditioning	types of		confuses the two types
	conditioning		

Names the	Correctly names	Correctly names Pavlov	Does not name either
researchers	Pavlov and	or Skinner	Pavlov or Skinner or
associated with	Skinner		confuses who belongs
each			with each type of
			conditioning

4. Social learning theory is an extension of behaviorism that emphasizes the influence that other people have over a person's behavior. Even without specific reinforcement, every individual learns many things through observation and imitation of other people. Modeling is the central process of social learning, by which a person observes the actions of others and then copies them. Models are people; they are most likely to be copied if they are admired, powerful, nurturing, or similar to the observer.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Explains social	States that the theory is	States that everyone	Is vague about the
learning theory	an offshoot of	learns through	definition of social
	behaviorism and how	observation and	learning theory
	everyone learns by	imitation	
	observation and		
	imitation		
Describes	Clearly describes how	Describes imitation	Fails to describe
modeling	modeling is implicit in	but not modeling	modeling
	social learning		
Gives reasons why	Lists at least three of the	Lists two of the four	Lists one or none of
a model is likely to	four reasons	reasons	the reasons
be copied			

5. The four stages are sensorimotor, preoperational, concrete operational, and formal operational. According to Piaget, cognitive equilibrium facilitates intellectual advancement because humans seek mental balance. Disequilibrium can cause cognitive growth if people change their thinking through assimilation or accommodation.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Lists the stages of	Lists the four stages in	Lists three of the	Lists two or fewer
cognitive	order	stages in order or	stages or has the
development		confuses the order of	stages out of order
		two of the stages	
Explains causes of	Understands how	Understands that	Does not adequately
intellectual	people seek cognitive	people seek cognitive	explain Piaget's belief
advancement	equilibrium and that	equilibrium	about intellectual
	disequilibrium can		advancement
	cause assimilation or		
	accommodation		

6. Information-processing theory is a perspective that compares humans' thinking processes to a computer's analysis of data, including sensory input, connections, stored memories, and output. Instead of interpreting responses by infants and children, as Piaget did, information-processing theory focuses on the processes of thought—that is, when, why, and how neurons fire before a response.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Defines information-	Gives the definition of	Knows that	Gives an incorrect or
processing theory	information-	information-	vague definition of
	processing theory	processing theory	information-
		compares cognition to	processing theory
		computer processes	
Explains how the	Differentiates Piaget's	Partially differentiates	Does not differentiate
		Piaget's theory from	between the two
Piaget's	information-	information-	theories
	processing theory	processing theory	

7. Students can list and describe any two of the following techniques:

EEG (electroencephalogram): This measures electrical activity in the cortex. It can differentiate active brains from sleeping brains and brain states that are half-awake, or dreaming.

ERP (event-related potential): The amplitude and frequency of brain electrical activity change when a particular stimulus occurs. First the ERP establishes the usual patterns, and then researchers present a stimulus that causes a blip in electrical activity. ERP indicates how quickly and extensively people react.

MRI (magnetic resonance imaging): The water molecules in various parts of the brain each have a magnetic current, and measuring that current reveals the amount of myelin, neurons, and fluid in the brain.

fMRI (functional magnetic resonance imaging): In advanced MRI, function is measured as more oxygen is added to the blood flow when specific neurons are activated. The presumption is that increased blood flow means that the person is using that part of the brain. fMRI has revealed that several parts of the brain are active at once.

PET (position emission tomography): This can reveal the volume of neurotransmitters; the rise or fall of brain oxygen, glucose, amino acids; and more.

fNIRS (functional near infrared spectroscopy): This measures changes in blood flow. It depends on light rather than magnetic charge. By measuring how each area of the brain absorbs light, neuroscientists can infer activity of the brain.

DTI (diffusion tensor imaging): This is another technique that builds on the MRI. It measures the flow (diffusion) of water molecules within the brain, which shows connections between one area and another.

Variations within and between people make it difficult to know what someone is thinking via brain scans. This confirms the need for theory. Without an idea of what to look for, or what it might mean, the millions of data points from all brain images might lead to the same trap as earlier measurements of the skull—human bias.

8. Vygotsky stated that all adults teach children the skills expected by their society and culture. Apprenticeship in thinking is how Vygotsky described the more skilled members of the society acting as tutors or mentors to help a person develop skills. Guided participation is the method used by parents, teachers, and entire societies to teach novices (apprentices) the skills and habits expected within their culture.

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- 1	Good (5 pts.)	ran (.	J pis.)	WCar	1-0 pts.)	1

Defines	Gives a definition for	Gives a definition for	Confuses the two
apprenticeship in	each term	either term	terms
thinking and guided			
participation			
Gives an example of	Offers an example for	Offers an example for	Confuses the two
each	each term	either term	examples

9. The zone of proximal development is the set of skills, knowledge, and concepts that a learner is close to acquiring but cannot master without help. A mentor breaks a large task down into its parts and then motivates and assists the learner to achieve it, one step at a time. Some frustration is permitted, but the learner must be actively engaged and never passive or overwhelmed. Mentors continually push for more competence by urging the learner to try something just a little harder rather than make a large leap. Examples include a person helping another learn how to tie his or her shoes, swim, ride a bike, or ice skate.

	examples		example
Provides examples		Provides one example	1 - 1
			learner)
learning	learner)	mentor or learner)	describe mentor or
how it relates to	(describes mentor and		learning (fails to
development and			how it relates to
proximal	explains clearly how it		term or cannot explain
Defines zone of	Defines the term and		Does not define the
	\ 1 /	Fair (3 pts.)	Weak (1–0 pts.)

10. Psychoanalytic theory identifies the first year of life as the oral stage, which occurs before the anal stage (years 1–3). Thus, psychoanalytic theorists believe that toilet training should be postponed until the child is cognitive, emotionally, and biologically ready—around age 2 for daytime training and age 3 for nighttime dryness. A behaviorist would argue that toilet training should occur whenever the parent (or adult) wishes to start, not at a particular age. Praise and reward should be used each time the child uses the toilet, as they will increase the likelihood that the child will successfully use the toilet in the future.

A cognitive theorist would suggest that a parent (or adult) wait until the child can understand reasons to urinate and defecate in the toilet.

A sociocultural theorist would emphasize the vast differences between one community and another. That is, different communities set their own guidelines for when and how to begin toilet training. Therefore, toilet training should reflect the values and expectations of the child's cultural environment.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Explains the advice	Accurately explains	Accurately explains	Does not explain how
that each therapist	how each therapist	how two therapists	any therapist would
would offer	would advise Maggie	would advise Maggie	advise on toilet
	on toilet training	on toilet training	training or provides
			incorrect information

11. According to evolutionary theory, every species has two long-standing, biologically

based drives: survival and reproduction. A basic idea from evolutionary theory is selective adaptation, which proposes that humans today react in ways that helped their ancestors' survival and reproduction long ago. Thus, some of the best qualities of people —cooperation, spirituality, and self-sacrifice—may have originated thousands of years ago, when groups of people survived because they took care of one another. The process of selective adaption works as follows: If one person happens to have a trait that makes survival more likely, the gene (or combination of genes) responsible for that trait is passed on to the next generation if that person lives long enough to reproduce. Anyone with such a fortunate genetic inheritance has a better chance than those without that gene to survive, mate, and bear many children—half of whom would inherit genes for the desirable trait.

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Identifies the drives	States the two	States either survival	Cannot identify either
associated with	biologically based	or reproduction	survival or
evolutionary theory	drives		reproduction
Explains selective	Explains both aspects	Explains either aspect	Does not adequately
adaptation, including	of selective	of selective adaptation	explain either aspect
the process	adaptation, including	and process	of selective adaptation
	the process		or the process

12. The approach taken by most developmentalists is to apply aspects of each of the various theories of development rather than adhering exclusively to one theory. Childhood aggression should be explained from at least two competing theories: psychoanalytic (e.g., inner drives), behaviorism (e.g., learned from observation), cognitive (e.g., beliefs that aggression is good or helpful), sociocultural (e.g., may need to be aggressive to be successful in one's culture), and evolutionary (e.g., aggression was an adaptive response among our ancestors or promoted survival).

	Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
Defines eclectic	Understands that most	States that most	Cannot define the
perspective	developmentalists apply	developmentalists	eclectic perspective
	aspects of multiple	apply aspects of two	
	theories	theories	
Describes its use to	Explains childhood	Explains childhood	Explains childhood
explain childhood	aggression based on	aggression based on	aggression based on
aggression	three or more theories	two theories	one theory

13. Psychoanalytic theory has made scientists aware of the importance of social and emotional experiences during early childhood. Behavioral theory (or behaviorism) has shown the effect that immediate responses and associations have on human learning. Cognitive theory helps scientists understand how intellectual processes and thinking affect people's actions. Sociocultural theories show how one's culture, social interaction, and environment influence one's behaviors. Evolutionary theory suggests that human impulses need to be recognized before they can be guided.

Good (5 pts.)	Fair (3 pts.)	Weak (1–0 pts.)
1000 to (2 post)	F 5522 (E P 52.)	(1 0 pts.)

Lists theories	Lists the five theories:	Lists three of the	Lists one or two of the
	psychoanalytic,	theories	theories
	behaviorism,		
	cognitive,		
	sociocultural, and		
	evolutionary		
Describes how	Describes how each of	Describes how two of	Describes how one of
theories have	the five theories has	the theories have	the theories has added
contributed to	added to our	added to our	to our knowledge of
understanding	knowledge of	knowledge of	development
	development	development	