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CORRECT ANSWERS ARE LOCATED IN THE 2ND HALF OF THIS DOC.

TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.

1) The pattern of biological, cognitive, and socioemotional changes that begins at conception and continues through the life span of an individual is called development.
   - ◎ true
   - ◎ false

2) Biological, cognitive, and socioemotional processes of development are intertwined.
   - ◎ true
   - ◎ false

3) During middle and late childhood, achievement typically becomes an important theme of children's lives.
   - ◎ true
   - ◎ false

4) Early adulthood involves the transition from childhood to adulthood.
   - ◎ true
   - ◎ false

5) Developmentalists who emphasize that development is influenced by nurture often describe development as a series of distinct stages, like the change from caterpillar to butterfly.
   - ◎ true
   - ◎ false

6) The early-later experience issue focuses on the degree to which early experiences (especially in infancy) or later experiences are the key determinants of a child's development.
   - ◎ true
   - ◎ false

7) Splintered development refers to the circumstances in which development is uneven across domains.
   - ◎ true
   - ◎ false

8) The number and size of the brain's nerve endings increase until late childhood.
   - ◎ true
   - ◎ false

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9) The cells in the brain responsible for processing information stop dividing early in childhood. Brain development is not influenced by outside experiences or actions.
   - ◎ true
   - ◎ false

10) The neuroconstructivist view of cognitive development rejects the theory that the human brain has plasticity.
   - ◎ true
   - ◎ false

11) A teaching implication of brain science is that children will be better able to focus and maintain attention as myelination progresses.
   - ◎ true
   - ◎ false

12) In the context of brain development, the limbic system matures much later than the prefrontal cortex.
   - ◎ true
   - ◎ false

13) Piaget's stages of cognitive development demonstrate that cognition is qualitatively different in one stage compared with another.
   - ◎ true
   - ◎ false

14) According to Jean Piaget's stages of cognitive development, the preoperational stage is logical rather than intuitive.
   - ◎ true
   - ◎ false

15) The symbolic function substage starts at about 4 years of age and lasts until about 7 years of age.
   - ◎ true
   - ◎ false

16) According to Lev Vygotsky, cognitive development occurs without social interaction.
   - ◎ true
   - ◎ false

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17) The main implication of Lev Vygotsky's theory for teaching is that students need many opportunities to learn with the teacher and more-skilled peers.
- ◎ true
- ◎ false

18) Piaget believed that children who engage in "private speech" are more socially competent than children who do not.
- ◎ true
- ◎ false

19) Vygotsky believed that private speech represents an early transition in becoming more socially communicative.
- ◎ true
- ◎ false

20) Piaget believed that children construct knowledge by transforming, organizing, and reorganizing previous knowledge.
- ◎ true
- ◎ false

21) According to both Piaget and Vygotsky, teachers should play the role of facilitator rather than director.
- ◎ true
- ◎ false

22) According to Piaget, language plays a major role in influencing a child's cognitive development.
- ◎ true
- ◎ false

23) Children benefit when their parents and teachers actively engage them in conversation, ask questions, and emphasize interactive rather than directive language.
- ◎ true
- ◎ false

24) Semantics refers to the meaning of words and sentences.
- ◎ true
- ◎ false

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25) The word "walking" consists of two morphemes.
- ◎ true
- ◎ false

MULTIPLE CHOICE - Choose the one alternative that best completes the statement or answers the question.

26) During the period of development known as "early childhood," a child typically does which of the following?
- A) masters the fundamental skills of writing
- B) contemplates career choices
- C) pursues independence and seeks identity
- D) learns to identify the letters of the alphabet

27) During middle and late childhood, a child typically
- A) interacts more with the social world beyond their family.
- B) explores different career paths he or she wants to follow.
- C) seeks his or her own identity.
- D) develops abstract and idealistic thoughts.

28) When children intensely pursue independence, seek their own identity, and experience rapid physical changes, they are most likely in the _____ stage of their development.
- A) early adulthood
- B) middle childhood
- C) adolescence
- D) childhood

29) An individual's thoughts become more abstract, logical, and idealistic during which of the following periods of development?
- A) infancy
- B) early childhood
- C) middle and late childhood
- D) adolescence

30) If a child is entering preschool, he or she is in which of the following periods of development?
- A) infancy
- B) early childhood
- C) middle and late childhood
- D) adolescence

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31) If a child is in his or her elementary school years, he or she is most likely in the _____ period of development.
A) infancy
B) early childhood
C) middle and late childhood
D) adolescence

32) In the 21st century, the transitional period that occurs from approximately 18 to 25 years of age is referred to as _____.
A) emerging adulthood
B) adolescence
C) middle age
D) early elderhood

33) Which of the following is an example of a socioemotional process that might be studied by an educational psychologist?
A) the development of children's prefrontal cortex
B) the changes in children's motor skills
C) the changes in children's ability to solve math problems
D) the influence of parent behavior on children aggression

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34) Which of the following is an example of a cognitive process that might be studied by an educational psychologist?
A) the development of children's prefrontal cortex
B) the changes in children's motor skills
C) the changes in children's ability to solve math problems
D) the influence of parent behavior on children aggression

35) Which of the following is an example of a biological process that might be studied by an educational psychologist?
A) the development of children's prefrontal cortex
B) the changes in children's motor skills
C) the changes in children's ability to solve math problems
D) the influence of parent behavior on children aggression

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36) Which of the following is an example of splintered development?
A) John has excellent math skills, but Chen has excellent reading skills.
B) Gloria has average verbal, reading, and writing skills.
C) Travis has excellent math skills but behaves in socially inappropriate ways.
D) Half of Mrs. Wu's class performs at grade level in math, but the other half performs below grade level.

37) Phil is extremely dependent on his mother. His language development, his ability to think symbolically, his sensorimotor coordination, and his social learning are not complete. Which of the following periods of development is Phil in?
A) infancy
B) early childhood
C) middle and late childhood
D) adolescence

38) Eight-year-old Paula learns how to react to criticism and appreciation. Her parents teach her how to respond positively to negative criticism from friends and peers and how to build a strong personality. The behavioral changes that Paula experiences by learning from her parents most likely represent
A) cognitive processes.
B) socio emotional processes. TBEXAM.COM
C) biological processes.
D) physiological processes.

39) Moesha is learning how to follow instructions and how to recognize the letters in her name. Which of the following periods of development is Moesha in?
A) infancy
B) early childhood
C) middle and late childhood
D) adolescence

40) The most extensive increase in myelination takes place during _____.
A) infancy
B) elderhood
C) old age
D) adolescence

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41) Myelination in the areas of the brain that are important in focusing attention is not complete in an individual until about _____.
A) 2 years of age
B) 3 years of age
C) 10 years of age
D) 25 years of age

42) Tiny gaps between neurons where connections between neurons are made are called
A) density.
B) myelination.
C) synapses.
D) lateralization.

43) Which of the following statements is true about the prefrontal cortex?
A) It develops quickly and matures by early childhood.
B) It is the region of the brain with the lowest level of myelination in adolescence.
C) It is responsible for processing emotions.
D) It is the region where higher-level thinking and self-regulation take place.

44) Identify an accurate statement about brain development.
A) The corpus callosum, where fibers connect the left and right hemispheres, thickens in adolescence.
B) Myelination in brain areas important in focusing attention is complete when a child is 5 years of age.
C) Total brain volume stabilizes by the end of infancy in most children.
D) The prefrontal cortex completely develops in early adolescence.

45) _____ is the specialization of functions in each hemisphere of the brain.
A) Accommodation
B) Lateralization
C) Myelination
D) Translocation

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46) Janice is 14 years old. She is able to understand complex math and science equations. Mark, an educational psychologist, tells his colleague James that Janice is most likely in the formal operational stage of cognitive development. James disagrees with Mark because he believes that Janice hardly shows adolescent egocentrism. Which of the following strengthens Mark's claim?
A) Janice is a permanent participant in debates and discussions in her school.
B) Janice has become an extrovert over the last few years.
C) Janice thinks logically and devises plans to solve problems.
D) Janice can speak three different languages.

47) According to Piaget, _____ occurs when children incorporate new information into their existing schemas.
A) displacement
B) assimilation
C) accommodation
D) equilibration

48) According to Piaget, _____ occurs when children adjust their schemas to fit new information and experiences.
A) equilibration
B) assimilation
C) accommodation
D) displacement

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49) Piaget's concept of grouping isolated behaviors into a higher-order, more smoothly functioning cognitive system is called
A) assimilation.
B) equilibration.
C) organization.
D) accommodation.

50) In Piaget's theory, actions or mental representations that organize knowledge are called
A) heuristics.
B) algorithms.
C) schemas.
D) models.

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51) Piaget's interest in schemas focused on how children
A) learn to solve math problems.
B) resolve conflicts with others.
C) organize knowledge.
D) overgeneralize information.

52) According to Vygotsky, _____ means changing the level of support.
A) assimilation
B) equilibration
C) scheming
D) scaffolding

53) The sensorimotor stage, as described by Piaget, includes individuals in which of the following age groups?
A) Birth to 2 years old
B) 2 to 7 years old
C) 7 to 11 years old
D) 11 years old through adulthood

54) The concrete operational stage, as described by Piaget, includes individuals in which of the following age groups?
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A) Birth to 2 years old
B) 2 to 7 years old
C) 7 to 11 years old
D) 11 years old through adulthood

55) A child who can only perceive other people's perspectives as though they were from his or her own point of view is said to display which of the following?
A) object permanence
B) symbolic function
C) logical reasoning
D) egocentrism

56) During the symbolic function substage, a child gains the ability to do which of the following?
A) Represent mentally an object that is absent.
B) Distinguish between oneself and the environment.
C) Classify items based on two or more properties at the same time.
D) Understand that inanimate objects are not alive.

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57) Which of the following statements is true about the intuitive thought substage?
- A) It is the substage where children begin to use primitive reasoning.
- B) It involves children thinking in abstract, idealistic, and logical ways.
- C) It starts about when children are 12 years of age.
- D) It is the third substage of concrete operational thought.

58) According to Piaget, a child is first able to sort objects into groups based on two or more characteristics when that child reaches which of the following stages?
- A) sensorimotor stage
- B) preoperational stage
- C) concrete operational stage
- D) formal operational stage

59) According to Piaget, a child first understands the idea of "conservation of volume" when that child reaches which of the following stages?
- A) sensorimotor stage
- B) preoperational stage
- C) concrete operational stage
- D) formal operational stage

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60) According to Vygotsky, what is the zone of proximal development?
- A) the range of tasks that are too difficult for children to master either alone or with assistance
- B) the range of tasks that are too difficult for children to master alone but can be learned with assistance
- C) the range of tasks that children have mastered but cannot teach to others
- D) the range of tasks that children have mastered and can teach to others

61) Vygotsky's zone of proximal development (ZPD) has a lower limit and an upper limit. Which of the following best describes these limits?
- A) The lower limit is the level of skill reached by a child working independently and the upper limit is the level of additional responsibility the child can accept with assistance.
- B) The lower level is the level of skill reached by a majority of students in a class and the upper limit is the level of skill reached by the top five percent of students in the class.
- C) A student's ZPD limits and "readiness to learn" are determined by the results of standardized testing.
- D) Teaching should begin at the lower limit of the ZPD and gradually progress toward the upper limit so that a student experiences success.

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62) Which of the following best describes an example of scaffolding as used by a teacher when assisting a student?
A) The teacher begins with direct instruction but gradually reduces the amount of guidance given.
B) The teacher observes the student without assisting until the student asks for assistance.
C) The teacher asks the student to teach other students as a method of helping the student learn.
D) The teacher divides students into groups of similar abilities so the students can compete fairly.

63) Bruce is having trouble with division problems; he can't finish them correctly on his own. However, he can complete them if his teacher gives him some hints. According to Vygotsky, why can't Bruce complete his division problems on his own?
A) Because division cannot be assimilated.
B) Because he cannot accommodate.
C) Because he cannot scaffold division.
D) Because division is in his zone of proximal development.

64) Kiley is having trouble learning the steps involved in using a microscope correctly. If we consider Vygotsky's description of how children help themselves through difficult tasks, we should suggest that Kiley
A) practice each step separately many times over.
B) go through the procedure in slow motion a few times.
C) talk herself through the steps.
D) learn the reasons why each step is important.

65) Brianna is completing a few reading comprehension questions. Her teacher keeps interrupting her work to check it. However, Brianna performs well on reading comprehension and can do this task without the help of her teacher. According to Vygotsky, is reading comprehension in Brianna's zone of proximal development?
A) Yes, because she can complete it on her own.
B) No, because she can complete it on her own.
C) Yes, because she needs scaffolding in reading comprehension.
D) No, because she cannot complete it on her own.

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66) Three of the following teachers are using "scaffolding" to help their students learn. Which one is *not* providing scaffolding?
A) Ms. Applegate gives her students the structure she'd like them to follow when they write their first essay.
B) Mr. Bernardo teaches the backhand tennis swing by gently guiding each student through the correct movement a few times.
C) Ms. Chen gives her class some hints about how to solve an especially difficult word problem.
D) Mr. Donaldson takes his students on a field trip to the art museum so they can learn more about the different types of art.

67) Which one of the following best illustrates Piaget's concept of accommodation?
A) Anne is given 10 more addition problems when she does the first 10 carelessly.
B) Betsy writes down the definition of a mollusk, something she learned word for word from her textbook.
C) Carol copies down what her teacher writes on the blackboard; later she will memorize it.
D) Donna revises her understanding of what clouds are like when she studies them in science class.

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68) Mr. Carbona is trying to teach his kindergarten students about different animals. Henry, one of his students, explains to Mr. Carbona that he does not need to learn about lions because he has one at home. When Mr. Carbona explains to him that he must have a cat at home. Henry insists that it is a lion because it looks just like the one in the picture. According to Piaget, Henry is
A) accommodating.
B) assimilating.
C) using multiple classification.
D) practicing animism.

69) Ann Marie ran into her teacher and his wife at the park. She was very surprised that he was a husband and a father. According to Piaget's theory of cognitive development, which concept is Ann Marie having trouble with?
A) Centering
B) Conservation
C) Abstract thinking
D) Classification

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70) George thinks his teacher is joking when she tells him that she has a son who is his age. According to Piaget's theory of cognitive development, which concept is George having trouble with?
A) Centering
B) Conservation
C) Abstract thinking
D) Classification

71) Louis receives a new soccer ball for his birthday. His parents notice that Louis does not try to kick the ball but instead dribbles it in the same way he dribbles his basketball. Louis's dribbling of the new ball reflects Piaget's concept of
A) conservation.
B) accommodation.
C) multiple classification.
D) assimilation.

72) Marcy is given a choice between two Hershey's bars, one of which has been broken into four pieces and the other is intact. Marcy chooses the broken candy bar, believing that it has more candy. According to Piaget, Marcy is having trouble with which concept?
A) transductive reasoning
B) multiple classification
C) egocentrism
D) conservation

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73) Ms. Garcia has just asked her students to organize the sheets of paper on their desks by size. According to Piaget, what type of task is Ms. Garcia asking her students to complete?
A) a seriation task
B) an assimilation task
C) an equilibration task
D) a task involving animism

74) Sixteen-year-old Eric thinks that most students in his school are interested to know about his social life and his daily routine. He thinks he is very unique, and he wants to be desired by his peers and friends. He always wants to be the center of attention too. According to Piaget, what is Eric experiencing?
A) classification
B) identity diffusion
C) transitivity
D) adolescent egocentrism

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75) In adolescents, the developmental disjunction between strong emotions and the _____ may account for their increased risk taking.
A) prefrontal cortex
B) thyroid gland
C) cerebrum
D) cerebellum

76) Total brain volume stabilizes by
A) early adolescence.
B) end of early childhood.
C) late adulthood.
D) the end of middle and late childhood.

77) Ms. Lewis gets frustrated with her first-graders' performance on some tasks because they are constantly focusing their attention on one characteristic and leaving out all others. According to Piaget's theory, what are Ms. Lewis's students experiencing?
A) classification
B) seriation
C) centration
D) assimilation

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78) Mr. Castillo gives an assignment to his third-grade class. The assignment is a list of case studies dealing with hypothetical situations. Most of the class does not do well on this assignment. When Mr. Castillo asks them what happened, most of them reply, "I did not understand it." Mr. Castillo is frustrated because he thinks these children are lazy and unmotivated. According to Piaget's theory, what is happening?
A) These children are probably underachievers and lazy.
B) The teacher is expecting concrete operational thinking from preoperational kids.
C) The teacher is expecting formal operational thinking from formal operational kids.
D) The teacher is expecting formal operational thinking from concrete operational kids.

79) Veronica is having trouble with the concept of conservation. Which of the following questions would Veronica most likely have trouble answering correctly?
A) A small box contains 16 chocolates. If all chocolates from the small box are transferred into a big bowl, then are there more chocolates?
B) If cats are different from lions, then are dogs different from foxes?
C) Which is bigger: 7 multiplied by 4 or 6 multiplied by 5?
D) A fruit basket has 10 apples. If there are 8 red apples and 2 green apples, then are there more red apples or more green apples?

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80) Mr. Epstein is showing the class a picture of a tiger. Ally, one of his students, tells him that she has one of these animals at home. He tries to explain to her that she must have a cat, not a tiger. She insists that it is a tiger and that she got him at the pet store last month. According to Piaget, the teacher is trying to throw Ally into a state of
A) disequilibrium.
B) accommodation.
C) equilibration.
D) equilibrium.

81) Karen is participating in a brainstorming session. She does not interrupt other participants when they speak, and she patiently waits for her turn to speak. She also politely makes her points during the session. In the context of the language rules that govern communication, Karen is demonstrating the knowledge of _____.
A) pragmatics
B) semantics
C) phonology
D) morphology

82) Which of the following is the smallest unit of meaning in a language?
A) phoneme
B) morpheme
C) semantics
D) pragmatics

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83) Vincent says that the word "talking" can be split into two meaningful units "talk" and "ing." In this case, Vincent is most likely discussing the _____ of the word.
A) phonology
B) morphology
C) semantics
D) pragmatics

84) The smallest unit of sound in a language is which of the following?
A) phonemes
B) morphemes
C) semantics
D) pragmatics

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85) Language is highly ordered and organized according to which systems of rules?
A) phonology, morphology, syntax, conservation, and centration
B) phonology, seriation, syntax, semantics, and pragmatics
C) phonology, morphology, syntax, assimilation, and accommodation
D) phonology, morphology, syntax, semantics, and pragmatics

86) In English, the adjective usually precedes the noun, whereas in Spanish the adjective usually follows the noun. This is an example of the _____ of a language.
A) phonology
B) morphology
C) syntax
D) semantics

87) Many children's television shows and movies show animals and objects that can talk. In most cases, these shows are _____ correct, but _____ incorrect.
A) syntactically; semantically
B) semantically; syntactically
C) syntactically; linguistically
D) semantically; pragmatically

88) At which of the following ages is a typical child most likely to speak his or her first word?
A) 6 to 8 months of age
B) 10 to 13 months of age
C) 24 to 28 months of age
D) 30 to 36 months of age

89) At which of the following ages does the typical child begin to use plurals and past tense correctly?
A) 1 year of age
B) 2 years of age
C) 4 years of age
D) 6 years of age

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90) Which of the following observations would provide the strongest support to the statement that the process of language is biologically based?
A) Children from all over the world acquire language milestones at about the same age despite vast differences in environmental experiences.
B) Children benefit when their parents and teachers actively engage them in conversation and ask many questions when they interact.
C) Children can be trained to speak words even before they are able to understand the meaning of those words.
D) Children tend to understand nouns and verbs before they are able to understand adjectives and adverbs.

91) Tyler does not understand why his father can say, "The car flew down the street." After all, cars, he has been taught, do not fly. Planes and birds fly. According to Tyler, the problem lies with the _____ of the sentence.
A) pragmatics
B) semantics
C) morphology
D) phonemes

92) Lori, a 5-year-old in Mrs. Clark's class, doesn't understand how a person can feel "blue" and the sky can be the color "blue." Lori is encountering this problem because she does not yet have a clear grasp of the _____ of the language.
A) semantics
B) syntax
C) pragmatics
D) phonemes

93) Sarah says to her teacher, "Mrs. White, today recess to go want don't I!" Mrs. White smiles and says, "It's okay if you don't want to go to recess today." According to language development, Sarah is having a problem with:
A) semantics.
B) syntax.
C) pragmatics.
D) phonemes.

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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

94) A class teacher draws three circles on the board and labels the circles A, B, and C. Circle A is bigger than circle B, and circle B is bigger than circle C. When the teacher asks Melanie if circle A is bigger than circle C, Melanie hesitates to answer the question because she struggles to understand the relationship between the circles in terms of their sizes. In this case, which concept is Melanie struggling to understand: the concept of transitivity or the concept of seriation?

95) Your friend has just been hired to teach school students. She asks you for help in working with concrete operational thinkers. Outline the teaching strategies for working with concrete operational thinkers for your friend.

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96) Ms. Tosetti is a kindergarten teacher at George Washington Elementary. She is having trouble with the students in her class not wanting to share, not understanding how another student feels, and telling a story as if their listeners already know many of the details that only they should know. According to Piaget, what is happening in this scenario?

97) Mr. Reginald notices that many students in his class encounter problems with language. Most commonly, when they say a sentence, the order of the words does not make sense, although the words are used correctly. According to language development, what is Mr. Reginald observing in his students?

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98) Connie's teacher notices that when she is around younger children, the way she speaks and what she says to them is different from the way she talks to her peers. What is Connie's teacher observing her do?

99) LaTonya's teacher gives her the structure she'd like her to follow when she writes her essay. She also provides her with hints regarding common mistakes made when first writing essays and is there to provide support with how to solve any especially difficult problem LaTonya may have. According to Vygotsky, what is LaTonya's teacher demonstrating?

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ESSAY. Write your answer in the space provided or on a separate sheet of paper.

100) Identify the three processes of child development.

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101) Identify the different periods of development.

102) Distinguish between the different features of each of the different periods of development.

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103) Compare and contrast biological, cognitive, and socioemotional processes.

104) Discuss the epigenetic view on development.

105) Compare and contrast the continuity-discontinuity issue.

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106) Identify the four stages of cognitive development as proposed by Piaget.

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107) Discuss Vygotsky's zone of proximal development.

108) Discuss Piaget's concept of accommodation.

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109) Explain what lateralization means with regard to brain functioning.

110) Explain Piaget's concept of conservation.

111) Explicate Piaget's concept of equilibration.

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112) Describe the four stages of cognitive development as proposed by Piaget.

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113) Discuss the limitations of preoperational thinkers, according to Piaget.

114) What are the criticisms of Jean Piaget's theory of cognitive development?

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115) How does the significance of private speech differ for Jean Piaget and Levy Vygotsky?

116) Discuss the role of synaptic connections.

117) Describe how Vygotsky's zone of proximal development relates to teaching children in the classroom.

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118) Discuss how Vygotsky's view of cognitive development differs from Piaget's.

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119) Describe the terms "left-brained" and "right-brained."

120) Summarize the conclusions about the current state of knowledge in applying increasing research on the brain's development to education.

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121) Compare and contrast Piaget's stages of cognitive development, including the ages of individuals in each stage and a description of the traits that typify each stage.

122) Discuss the teaching strategies for working with preoperational thinkers.

123) Identify the organizational rules of spoken language.

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124) Compare and contrast morphology and phonology.

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125) What language skills do children acquire in infancy?

126) Discuss the characteristics of language development during adolescence.

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127) Identify the three strategies, emphasized by Ellen Galinsky (2010), for using books effectively with preschool children.

128) Compare and contrast syntax, pragmatics, and semantics.

129) Discuss the biological and environmental influences of language.

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130) What language skills do children acquire during middle and late childhood?

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131) What is metalinguistic awareness, and how does it affect language development in children?

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Answer Key

Test name: Chapter 02

1) TRUE
Development is the pattern of biological, cognitive, and socioemotional changes that begins at conception and continues through the life span.

2) TRUE
Biological, cognitive, and socioemotional processes of development are intertwined. Consider a child smiling in response to a parent's touch. This response depends on biological processes (the physical nature of the touch and responsiveness to it), cognitive processes (the ability to understand intentional acts), and socioemotional processes (the act of smiling often reflects a positive emotional feeling and smiling helps to connect us in positive ways with other human beings).

3) TRUE
During middle and late childhood, achievement becomes an important theme and children increase their self-control.

4) FALSE
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Adolescence involves the transition from childhood to adulthood.

5) FALSE
Developmentalists who emphasize that development is influenced by nature often describe development as a series of distinct stages, like the change from caterpillar to butterfly. Most developmentalists recognize that it is unwise to take an extreme position on the issues of nature and nurture, continuity and discontinuity, and early and later experiences.

6) TRUE
The early-later experience issue focuses on the degree to which early experiences (especially in infancy) or later experiences are the key determinants of a child's development. The early-later experience issue has a long history and continues to be hotly debated among developmentalists.

7) TRUE
Splintered development refers to the circumstances in which development is uneven across domains. One student may have excellent math skills but poor writing skills. Within the area of language, another student may have excellent verbal language skills but not have good reading and writing skills.

8) TRUE

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The number and size of the brain's nerve endings continue to increase at least into adolescence.

9) FALSE
The recent scientific view is that brain has plasticity and its development depends on contexts and experiences children engage in.

10) FALSE
In the increasingly popular neuroconstructivist view, (a) biological processes (genes, for example) and environmental experiences (enriched or impoverished, for example) influence the brain's development; (b) the brain has plasticity (the ability to change) and depends on experience; and (c) development of the brain is linked closely with cognitive development.

11) TRUE
Myelination in brain areas important in focusing attention is not complete until about 10 years of age. The implications for teaching are that children will have difficulty focusing their attention and maintaining it for very long in early childhood, but their attention will improve as they move through the elementary school years.

12) FALSE
In the context of brain development, the limbic system matures much earlier than the prefrontal cortex and is almost completely developed in early adolescence. The limbic system structure that is especially involved in emotion is the amygdala.

13) TRUE
Piaget's stages of cognitive development demonstrate that cognition is qualitatively different in one stage compared with another.

14) FALSE
According to Jean Piaget's stages of cognitive development, the preoperational stage is intuitive rather than logical. The preoperational stage is the second Piagetian stage.

15) FALSE
The intuitive thought substage is the second substage of preoperational thought, starting at about 4 years of age and lasting until about 7 years of age.

16) FALSE
According to Lev Vygotsky, children construct knowledge through social interaction. He also lays a strong emphasis on sociocultural context for cognitive development.

17) TRUE

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The main implication of Lev Vygotsky's theory for teaching is that students need many opportunities to learn with the teacher and more-skilled peers. Some critics point out that Vygotsky was not specific enough about age-related changes in his theory.

18) FALSE
This was Vygotsky's view. Piaget believed that self-talk is egocentric and reflects immaturity.

19) TRUE
According to Vygotsky, private speech, or self-talk, is one way for young children to learn social communication skills.

20) TRUE
For Piaget, children construct knowledge by transforming, organizing, and reorganizing previous knowledge.

21) TRUE
Both researchers viewed the teacher as a facilitator or a guide.

22) FALSE
According to Piaget, language plays a minor role in influencing a child's cognitive development.

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23) TRUE
Language development is not simply a matter of being rewarded for saying things correctly and imitating a speaker. Children benefit when their parents and teachers actively engage them in conversation, ask them questions, and emphasize interactive rather than directive language.

24) TRUE
Semantics refers to the meaning of words and sentences.

25) TRUE
The word "walking" consists of two morphemes, *walk* + *ing*.

26) D
During early childhood, children develop school readiness skills such as following instructions and identifying letters. First grade typically marks the end of early childhood.

27) A
During middle and late childhood, a child typically interacts more with the wider social world beyond his or her family. Children master the fundamental skills of reading, writing, and math; achievement becomes a more central theme; and self-control increases.

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28) C
When children intensely pursue independence, seek their own identity, and experience rapid physical changes, they are most likely in the adolescence stage of their development. Adolescence starts with rapid physical changes, including height and weight gains and development of sexual functions.

29) D
Adolescence is the period during which children become more independent; seek an identity; and think in more abstract, logical, and idealistic terms.

30) B
During early childhood, children develop school readiness skills such as following instructions and identifying letters.

31) C
If a child is in elementary school, he or she is most likely in the middle and late childhood period of development. In this period, children interact more with the wider social world beyond their family.

32) A
In the 21st century, the transitional period that occurs from approximately 18 to 25 years of age is referred to as emerging adulthood. Experimentation and exploration characterize the emerging adult.

33) D
Socioemotional processes involve changes in a child's relationships with other people, changes in emotion, and changes in personality. Parents' nurturance toward their child, a boy's aggressive attack on a peer, a girl's development of assertiveness, and an adolescent's feelings of joy after getting good grades all reflect socioemotional processes in development.

34) C
Cognitive processes involve changes in children's thinking, intelligence, and language.

35) A
Biological processes involve changes in a child's body and the development of the brain; genetic inheritance plays a major role.

36) C
Splintered development refers to the circumstances in which development is uneven across domains. One student may have excellent math skills but poor writing skills.

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37) A
Phil is most likely in his infancy. Infancy is the time in a baby's life in which language development, symbolic thought, sensorimotor coordination, and social learning are just beginning.

38) B
The behavioral changes that Paula experiences most likely represent socioemotional processes. Socioemotional processes involve changes in children's relationships with other people, changes in emotion, and changes in personality.

39) B
Moesha is in her early childhood. During early childhood, children develop school readiness skills such as following instructions and identifying letters.

40) D
The most extensive increase in myelination, which occurs in the brain's frontal lobes where reasoning and thinking occur, takes place during adolescence. Myelination is the process of encasing many cells in the brain with a myelin sheath.

41) C
Myelination in brain areas important in focusing attention is not complete until about 10 years of age. The implications for teaching are that children will have difficulty focusing their attention and maintaining it for very long in early childhood, but their attention will improve as they move through the elementary school years.

42) C
Synapses are the tiny gaps between neurons where connections between neurons are made.

43) D
The prefrontal cortex is the region where higher-level thinking and self-regulation take place. Growth in the prefrontal cortex continues through adolescence.

44) A
The corpus callosum, where fibers connect the brain’s left and right hemispheres, thickens in adolescence, and this improves adolescents’ ability to process information. The limbic system, which is the seat of emotions and where rewards are experienced, matures much earlier than the prefrontal cortex and is almost completely developed in early adolescence.

45) B

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Lateralization is the specialization of functions in each hemisphere of the brain. In individuals with an intact brain, there is a specialization of function in some areas.

46) C
Mark's claim is strengthened by the fact that Janice thinks logically and devises plans to solve problems. The formal operational stage, which emerges at about 11 to 15 years of age, is Piaget's fourth and final cognitive stage. At this stage, individuals move beyond reasoning only about concrete experiences and think in more abstract, idealistic, and logical ways. At this stage, people devise plans to solve problems and systematically test solutions.

47) B
Assimilation occurs when children incorporate new information into their existing schemas.

48) C
Accommodation occurs when children adjust their schemas to fit new information and experiences.

49) C
Organization is Piaget's concept of grouping isolated behaviors into a higher-order, more smoothly functioning cognitive system.

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50) C
A schema is an action or mental representation that exists in a person's mind to organize and interpret information.

51) C
Piaget (1954) said that as the child seeks to construct an understanding of the world, the developing brain creates schemas. A schema is an action or mental representation that organizes knowledge. By the time we have reached adulthood, we have constructed an enormous number of diverse schemas, ranging from how to drive a car, to how to balance a budget, to the concept of fairness.

52) D
Scaffolding means changing the level of support. Over the course of a session, a teacher adjusts the amount of guidance, decreasing the guidance as a student learns.

53) A
The sensorimotor stage includes children from birth to 2 years of age.

54) C

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The concrete operational stage lasts from 7 to 11 years of age.

55) D
Egocentrism is the inability to distinguish between one's own perspective and that of someone else.

56) A
During the symbolic function substage, a child gains the ability to represent mentally an object that is not present. The symbolic function substage occurs roughly between 2 and 4 years of age.

57) A
The intuitive thought substage is the second substage of preoperational thought, starting at about 4 years of age and lasting until about 7 years of age. At this substage, children begin to use primitive reasoning and want to know the answers to all sorts of questions.

58) C
An important concrete operation is classifying or dividing things into different sets or subsets and considering their interrelationships.

59) C
A concrete operation is a reversible mental action on real, concrete objects. A child can imagine pouring water from one container to the next without changing the volume of the water.

60) B
The zone of proximal development (ZPD) refers to the range of tasks that are too difficult for children to master alone but can be learned with assistance.

61) A
The lower limit of the ZPD is the level of skill reached by a child working independently. The upper limit is the level of additional responsibility the child can accept with the assistance of an able instructor, such as a teacher or a peer. Teaching should begin toward the zone's upper limit, so that the child can reach his or her goal with help and move to a higher level of skill and knowledge.

62) A
Scaffolding means changing the level of support. Over the course of a session, a teacher adjusts the amount of guidance, decreasing the guidance as a student learns.

63) D

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The zone of proximal development refers to the range of tasks too difficult for children to master alone but that can be learned with assistance.

64) C
Vygotsky believed that children who use private speech are able to guide themselves and talk themselves through difficult tasks.

65) B
The zone of proximal development refers to the range of tasks too difficult for children to master alone but that can be learned with assistance. Brianna does not need assistance with reading comprehension; she can perform this task alone.

66) C
Scaffolding means changing the level of support. Over the course of a session, a teacher adjusts the amount of guidance, decreasing the guidance as a student learns.

67) D
When Donna revises her understanding of what clouds are like when she studies them in science class, it illustrates Piaget's concept of accommodation. Accommodation occurs when a child adjusts their schemas to fit new information.

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68) B
According to Piaget, Henry is assimilating. Assimilation occurs when a child incorporates new knowledge into existing knowledge.

69) D
Ann Marie is having trouble with the concept of classification. Classification is dividing things into different sets and subsets depending on their interrelationships.

70) D
George is having trouble with the concept of classification. Classification is dividing things into different sets and subsets depending on their interrelationships.

71) D
Louis's dribbling of the new ball reflects Piaget's concept of assimilation. Assimilation occurs when a child incorporates new knowledge into existing knowledge.

72) D
Marcy is having trouble with the concept of conservation. Conservation is the idea that some characteristic of an object stays the same even though the object might change in appearance.

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73) A
Ms. Garcia is asking her students to complete a seriation task. Seriation involves ordering stimuli along some quantitative dimension.

74) D
According to Piaget, Eric is experiencing adolescent egocentrism. Adolescent egocentrism is normal, and it is characterized by a heightened awareness of the self.

75) A
Although adolescents are capable of very strong emotions, their prefrontal cortex isn't adequately developed to the point at which they can control these passions.

76) D
Total brain volume stabilizes by the end of middle and late childhood.

77) C
Ms. Lewis's students are experiencing centration. Centration is when children focus on one characteristic to the exclusion of all others.

78) D
According to Piaget's theory, the students are concrete thinkers and therefore cannot reason hypothetically or abstractly. The teacher is expecting formal operational thinking from concrete operational kids.

79) A
Veronica will most likely have trouble answering correctly whether the food bowl has more chocolates than were in the small box. Conservation is the idea that some characteristic of an object stays the same even though the object might change in appearance.

80) A
The teacher wants Ally to experience cognitive conflict or disequilibrium in trying to understand the world. Equilibration is a mechanism that Piaget proposed to explain how children shift from one stage of thought to the next. The shift occurs as children experience cognitive conflict, or disequilibrium, in trying to understand the world. Eventually, they resolve the conflict and reach a balance, or equilibrium, of thought. Piaget pointed out that there is considerable movement between states of cognitive equilibrium and disequilibrium as assimilation and accommodation work in concert to produce cognitive change.

81) A

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In the context of the language rules that govern communication, Karen is demonstrating the knowledge of pragmatics. Pragmatics is the appropriate use of language in different contexts. Pragmatic rules can be complex, and they differ from one culture to another.

82) B
Morphemes are minimal units of meaning.

83) B
In this case, Vincent is discussing the morphology of the word "talking." Morphology refers to the units of meaning involved in word formation. A morpheme is a minimal unit of meaning; it is a word or a part of a word that cannot be broken into smaller meaningful parts.

84) A
The basic unit of sound in a language is a phoneme; it is the smallest unit of sound that affects meaning.

85) D
Language organization involves five systems of rules: phonology, morphology, syntax, semantics, and pragmatics.

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86) C
Syntax involves the way words are combined to form acceptable phrases and sentences.

87) A
The animals and objects in such movies typically speak in sentences that are syntactically correct, but they violate our semantic knowledge that animals and objects don't talk.

88) B
Babbling occurs in the middle of the first year and infants usually utter their first word at about 10 to 13 months of age.

89) B
At the age of 2 years, a child correctly begins to use plurals and past tense.

90) A
Children from all over the world acquire language milestones at about the same age and in the same approximate order.

91) B

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According to Tyler, the problem lies with the semantics of the sentence. Semantics refers to the meaning of words and sentences.

92) A
Lori is encountering the problem because she does not yet have a clear grasp of the semantics of the language. Semantics refers to the meaning of words and sentences.

93) B
Sarah is having a problem with the syntax of the sentence. Syntax involves the ways words are combined to form acceptable phrases and sentences.

94) Short Answer
In this case, Melanie is most likely struggling to understand the concept of transitivity. Transitivity involves the ability to reason about and logically combine relationships. If a relation holds between a first object and a second object, and also holds between the second object and a third object, then it also holds between the first and the third objects. For example, consider three sticks (A, B, and C) of differing lengths. A is the longest, B is intermediate in length, and C is the shortest. Does a child understand that if A is longer than B, and B is longer than C, then A is longer than C? In Piaget's theory, concrete operational thinkers do; preoperational thinkers do not.

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95) Short Answer
The teaching strategies for working with concrete operational thinkers are as follows: (1) encourage students to discover concepts and principles; (2) involve children in operational tasks; (3) plan activities in which students practice the concept of ascending and descending classification hierarchies; (4) include activities that require conservation of area, weight, and displaced volume; (5) continue to ask students to justify their answers when they solve problems.

96) Short Answer
Ms. Tosetti's students are all demonstrating egocentrism, which is defined as the inability to distinguish between one's own perspective and that of someone else.

97) Short Answer
Mr. Reginald is observing problems with syntax, which involves the way that words are combined to form acceptable phrases and sentences.

98) Short Answer
Connie's teacher is observing her use of conversation appropriately, which is called pragmatics.

99) Short Answer

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LaTonya's teacher is demonstrating scaffolding, which means changing the level of support. Over the course of a session, a teacher adjusts the amount of guidance, decreasing the guidance as a student learns.

100) Essay
Biological processes involve changes in a child's body and the development of the brain; genetic inheritance plays a major role. Cognitive processes involve changes in children's thinking, intelligence, and language. Socioemotional processes involve changes in children's relationships with other people, changes in emotion, and changes in personality.

101) Essay
(1) Infancy, (2) early childhood, (3) middle and late childhood, (4) adolescence, (5) early adulthood, (6) middle adulthood, and (7) late adulthood.

102) Essay
(1) Infancy is the time in a baby's life in which language development, symbolic thought, sensorimotor coordination, and social learning are just beginning. (2) Early childhood is a time when children develop school readiness skills such as following instructions and identifying letters. (3) During middle and late childhood, a child masters the fundamental skills of reading, writing, and mathematics. (4) Adolescence is the period during which children become more independent; seek their own identity; and think in more abstract, logical, and idealistic terms. (5) In the 21st century, a transitional period—emerging adulthood, which occurs from approximately 18 to 25 years of age—has been described. Experimentation and exploration characterize the emerging adult. At this point in their development, many individuals are still exploring which career path they want to follow, what they want their identity to be, and which lifestyle they want to adopt (e.g., being single, cohabiting, or getting married).

103) Essay
Biological processes involve changes in a child's body and the development of the brain; genetic inheritance plays a major role. Cognitive processes involve changes in children's thinking, intelligence, and language. Socioemotional processes involve changes in children's relationships with other people, changes in emotion, and changes in personality.

104) Essay

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The epigenetic view on development states that development is the result of an ongoing, bidirectional interchange between heredity and the environment. Let's look at an example that reflects the epigenetic view. A baby inherits genes from both parents at conception. During childhood, environmental experiences such as nutrition, stress, learning, child care, and encouragement can modify genetic activity and the activity of the nervous system that directly underlies behavior. Heredity and environment thus operate together—or collaborate—to produce a child's intelligence, temperament, health, ability to read, and so on.

105) Essay
The continuity-discontinuity issue focuses on the extent to which development involves gradual, cumulative change (continuity) or distinct stages (discontinuity). In general, developmentalists who emphasize nurture usually describe development as a gradual, continuous process, like the seedling's growth into an oak. Those who emphasize nature often describe development as a series of distinct changes, like the change from caterpillar to butterfly.

106) Essay
The four stages of cognitive development are as follows: sensorimotor; preoperational; concrete operational; and formal operational.

107) Essay
Zone of proximal development (ZPD) is Vygotsky's term for the range of tasks that are too difficult for a child to master alone but that can be learned with guidance and assistance from adults or more-skilled children. Thus, the lower limit of the ZPD is the level of skill reached by the child working independently. The upper limit is the level of additional responsibility the child can accept with the assistance of an able instructor. The ZPD captures the child's cognitive skills that are in the process of maturing and can be accomplished only with the assistance of a more-skilled person.

108) Essay
Accommodation occurs when a child adjusts their schemas to fit new information. Consider an 8-year-old girl who is given a hammer and nail to hang a picture on the wall. She has never used a hammer, but from observing others do this she realizes that a hammer is an object to be held, that it is swung by the handle to hit the nail, and that it usually is swung a number of times. Recognizing each of these things, she fits her behavior into this schema she already has (assimilation). But the hammer is heavy, so she holds it near the top. She swings too hard and the nail bends, so she adjusts the pressure of her strikes. These adjustments reflect her ability to slightly alter her conception of the world (accommodation). Just as both assimilation and accommodation are required in this example, so are they required in many of a child's thinking challenges.

109) Essay

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The cerebral cortex is divided into two halves, or hemispheres. Lateralization is the specialization of functions in each hemisphere of the brain. In individuals with an intact brain, there is a specialization of function in some areas.

110) Essay
Conservation is the idea that some characteristics of an object stay the same even though the object might change in appearance. For example, to adults it is obvious that a certain amount of liquid stays the same regardless of a container's shape. But this is not obvious at all to young children. Rather, they are struck by the height of the liquid in the container. In this type of conservation task (Piaget's most famous), a child is presented with two identical beakers, each filled to the same level with liquid. The child is asked if the beakers have the same amount of liquid. The child usually says yes. Then the liquid from one beaker is poured into a third beaker, which is taller and thinner. The child now is asked if the amount of liquid in the tall, thin beaker is equal to the liquid that remains in the second original beaker. Children younger than 7 or 8 usually say no. They justify their answer by referring to the differing height or width of the beakers. Older children usually answer yes. They justify their answers appropriately: If you poured the liquid back, the amount would still be the same.

111) Essay
It is what Piaget proposed to explain how children shift from one stage of thought to the next. The shift occurs as children experience cognitive conflict and must resolve the conflict in order to regain equilibrium.

112) Essay
First stage: Sensorimotor (from birth to 2 years old): Characteristics include constructing an understanding of the world by coordinating sensory experiences with motor actions. Infants progress from exhibiting reflexive and instinctive actions to the beginning of symbolic thought. Second stage: Preoperational (from 2 to 7 years old): Characteristics include beginning to represent the world with words and images, which are indicative of symbolic thinking. Third stage: Concrete operational (from 7 to 11 years old): Characteristics include thinking logically about concrete events and being able to classify objects into different sets. Fourth stage: Formal operational (from 11 years of age through adulthood): Characteristics include reasoning in abstract, idealistic, and logical ways.

113) Essay
Piaget's preoperational stage in which children are not yet capable of operational thought is beset by several limitations. Preoperational thinkers lack conservation and classification and possess centration and egocentrism.

114) Essay

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Questions have been raised about four aspects of Piaget's theory. First, some cognitive abilities are suspected to emerge earlier or later than depicted by Piaget. Second, emerging aspects of each stage may not appear in synchrony. Rather, a child may develop conservation long before he or she learns to cross-classify. Hence, some developmentalists argue that development is not as stage-like as suggested by Piaget. Third, it has been shown, contrary to Piaget's beliefs, that children can be trained to perform cognitive tasks that are beyond their current cognitive stages. Fourth, culture and education seem to exert stronger influences on children's development than Piaget believed.

115) Essay
In Lev Vygotsky's view, language plays an important role in a child's development. According to Vygotsky, children use speech not only for social communication, but also to help them solve tasks. Vygotsky further argued that young children use language to plan, guide, and monitor their behavior. This use of language for self-regulation is called "private speech." For example, young children talk aloud to themselves about such things as their toys and the tasks they are trying to complete. Thus, when working on a puzzle, a child might say, "This piece doesn't fit; maybe I'll try that one." A few minutes later she utters, "This is hard." For Piaget, private speech is egocentric and immature, but for Vygotsky it is an important tool of thought during the early childhood years.

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116) Essay
Synapses are tiny gaps between neurons where connections between neurons are made. The connections that are used become stronger and survive and the unused ones are replaced by other pathways or disappear.

117) Essay
Answers should include the following ideas: (1) use a student's zone of proximal development (the range of tasks too difficult for children to master alone but that can be learned with the guidance and assistance of adults or more-skilled children) by teaching skills that are toward the zone's upper limit; (2) use scaffolding (changing levels of support) by offering just enough assistance so that a child succeeds at a task; (3) use more skilled peers as teachers; (4) monitor and encourage children's use of private speech (privately talking to one's self); and (5) assess a student's zone of proximal development rather than intelligence.

118) Essay

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Answers may include the following: (1) Vygotsky emphasizes the importance of inner speech, while Piaget views such speech as immature; (2) while Piaget's theory is constructivist (i.e., portrays learning through a child's active building of knowledge), Vygotsky's theory is social constructivist (i.e., emphasizes the social contexts of learning and that knowledge is mutually built and constructed); (3) Piaget emphasizes stages of development, while Vygotsky does not; and (4) Piaget's key processes are schema building through assimilation and accommodation, while Vygotsky's key processes are expanding the zone of proximal development through the language and tools of a culture.

119) Essay

The cerebral cortex is divided into two halves, or hemispheres. Lateralization is the specialization of functions in each hemisphere of the brain. In most individuals, speech and grammar are localized to the left hemisphere. However, not all language processing is carried out in the brain's left hemisphere. For example, understanding such aspects of language as appropriate use of language in different contexts, evaluation of the emotional expressiveness of language, and much of humor involves the right hemisphere. Because of the differences in functioning of the brain's two hemispheres, people commonly use the phrases "left-brained" and "right-brained" to suggest that one hemisphere is dominant. Most complex functioning—such as logical and creative thinking—in normal people involves communication between both sides of the brain. Scientists who study the brain are typically very cautious when using terms such as "left-brained" and "right-brained" because the brain is more complex than those terms suggest.

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120) Essay

The conclusions on the current state of knowledge are as follows:

1. Both early and later experiences, including educational experiences, are very important in the brain's development.
2. Synaptic connections between neurons can change dramatically as a consequence of the learning experiences children and adolescents have.
3. Development at the highest level of the brain—the prefrontal cortex, where such important cognitive processes as thinking, reasoning, and decision making primarily occur—continues at least through the emerging adult years.
4. Despite the increased focal activation of the prefrontal cortex as children grow older, changes in the brain during adolescence present a challenge to increased cognitive control.
5. Brain functioning occurs along specific pathways and involves integration of function.

121) Essay

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The first stage is the sensorimotor (birth to 2 years old). The characteristics include constructing an understanding of the world by coordinating sensory experiences with physical actions. Infants progress from exhibiting reflexive and instinctive actions to the beginning of symbolic thought. The second stage is the preoperational (2 to 7 years old), and the characteristics include beginning to represent the world with words and images, which are indicative of symbolic thinking. The third stage is the concrete operational (7 to 11 years old), and the characteristics include thinking logically about concrete events and being able to classify objects into different sets. The fourth stage is the formal operational (from 11 years of age through adulthood), and the characteristics include reasoning in abstract, idealistic, and logical ways.

122) Essay
The teaching strategies for working with preoperational thinkers are to (1) ask children to make comparisons, (2) give children experience in ordering operations, (3) have children draw scenes with perspective, (4) construct an inclined plane or hill, and (5) ask children to justify their answers when they draw conclusions.

123) Essay
The organizational rules of spoken language are (1) morphology, (2) phonology, (3) syntax, (4) pragmatics, and (5) semantics.

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124) Essay
These are two of the organizational rules of spoken language. Morphology refers to the smallest units of meaning in a language, whereas phonology refers to the basic units of sound in a language.

125) Essay
Babbling occurs in the middle of the first year and infants usually utter their first word at about 10 to 13 months. By 18 to 24 months, infants usually have begun to string two words together. In this two-word stage, they quickly grasp the importance of language in communication, creating phrases such as "Book there," "My candy," "Mama walk," and "Give Papa."

126) Essay

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Language development during adolescence includes increasingly sophisticated use of words. As they develop abstract thinking, adolescents become much better than children at analyzing the function a word performs in a sentence. Adolescents also develop more subtle abilities with words. They make strides in understanding metaphor, which is an implied comparison between unlike things. For example, individuals "draw a line in the sand" to indicate a nonnegotiable position; a political campaign is said to be a marathon, not a sprint. And adolescents become better able to understand and to use satire, which is the use of irony, derision, or wit to expose folly or wickedness. Caricatures are an example of satire. More advanced logical thinking also allows adolescents, from about 15 to 20 years of age, to understand complex literary works.

127) Essay
Ellen Galinsky (2010) emphasized the following strategies for using books effectively with preschool children: (1) Use books to initiate conversation with young children, (2) Use what and why questions, and (3) Choose some books that play with language.

128) Essay
These are three of the organizational rules of spoken language. Syntax involves the way words are combined to form acceptable phrases and sentences. Pragmatics involves the appropriate use of language in different contexts. Semantics refers to the meaning of words and sentences.

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129) Essay
Noam Chomsky (1957) argued that humans are prewired to learn language at a certain time and in a certain way. The strongest evidence to support this is that children from all over the world acquire language milestones at about the same age and in the same approximate order. Despite the influence of biology, children do not learn language in a social vacuum. Thus, there is enough variation in the development of language to justify the claim that caregivers and the environment play important roles in the acquisition of language.

130) Essay
Children gain new skills as they enter school that make it possible to learn to read and write. These include increased use of language to talk about things that are not physically present, learning what a word is, and learning how to recognize and talk about sounds. They also learn the "alphabetic principle," which means that the letters of the alphabet represent sounds of the language. Vocabulary development continues at a breathtaking pace for most children during the elementary school years. After five years of word learning, a 6-year-old child does not slow down. During middle and late childhood, changes occur in the way mental vocabulary is organized. The process of categorizing becomes easier as children increase their vocabulary. Children's vocabulary increases from an average of about 14,000 words at age 6 to an average of about 40,000 words by age 11.

131) Essay

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Advances in vocabulary and grammar during the elementary school years are accompanied by the development of metalinguistic awareness, which is knowledge about language, such as knowing what a preposition is or being able to discuss the sounds of a language. Metalinguistic awareness allows children "to think about their language, understand what words are, and even define them." It improves considerably during the elementary school years. In elementary school, defining words also becomes a regular part of classroom discourse and children increase their syntax as they study and talk about the components of sentences, such as subjects and verbs.

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