Chapter 8

Human Development

Outline

I. Prenatal Development
   A. The period of development from conception to birth is the **prenatal period**.
   B. The process of prenatal development begins with fertilization, when a single sperm produced by the father unites with the egg provided by the mother.
   C. During the **germinal stage** of prenatal development, the **zygote**, the one-cell product of the union of sperm and ovum, begins to move down the fallopian tube toward the uterus.
      1. It is undergoing rapid cell growth at this time, and forms into a hollow ball called the **blastocyst**.
      2. This stage lasts from the time of fertilization until the blastocyst implants itself into the wall of the uterus, around two weeks.
         a. The outer layer of cells is programmed to develop into the placenta, the amniotic sac, and umbilical cord.
         b. The inner layer of cells is programmed to become the fetus.
   D. The **embryonic stage** (the stage of the embryo) lasts about six weeks.
      1. All of the organ systems of the body are laid in place.
      2. During this vulnerable period, the central nervous system is at risk, and the unborn is most sensitive to external or environmental influences.
   E. The **fetal stage** includes months 3 through 9.
      1. The organs of the body continue to increase in complexity and size and begin to function.
      2. During the seventh month, most fetuses have reached the point of viability, meaning that they could survive without interference or medical intervention if born.
      3. After nearly 270 days, the fetus is ready to enter the world as a newborn.

II. Environmental Influences on Prenatal Development
   A. Maternal malnutrition often leads to increases in miscarriages, stillbirths, and premature births.
   B. Newborns with low birth weight (4 pounds or less) who do survive have a greater risk of cognitive deficits—even as they approach adolescence.
   C. Using vitamin and mineral supplements is generally a good idea, but these can be overdone as well.
   D. A balanced, sensible diet works best for mother and fetus.
   E. Smoking by pregnant women has harmful effects on their unborn children.
1. Smoking during pregnancy is associated with low birth weight and premature birth.
2. Children whose mothers smoked a pack of cigarettes a day during pregnancy have a 75 percent increase in risk for mental retardation, even when other risk factors were controlled.
3. Smoking during and after pregnancy is associated with an increased risk of sudden infant death syndrome.

F. **Fetal alcohol syndrome (FAS)** refers to a cluster of symptoms (for example, low birth weight, poor muscle tone, and intellectual retardation) associated with a child born to a mother who was a heavy drinker of alcohol during pregnancy.
   1. Heavy drinking is defined as drinking three or more alcoholic drinks per day or binge drinking during vulnerable periods of organ development.
   2. Lower doses of alcohol consumption during critical periods of pregnancy can produce a condition known as fetal alcohol effects.
   3. The highest rate of fetal alcohol syndrome is among the Native American population of the Southwest.
   4. Children whose mothers drank even small amounts of alcohol during pregnancy are at increased risk for behavior problems later in life.
   5. Experts agree that the best advice for a pregnant mother is total abstinence.

G. Mothers who use or abuse psychoactive drugs during pregnancy cause considerable complications for their unborn child.
   1. Even common drugs such as caffeine and aspirin have been associated with low birth weights.
   2. It is wise to avoid harmful substances, get good prenatal care, eat a healthy diet and follow the advice of a physician.
   3. **Prenatal exposure to methamphetamine produces several possible deficits.**

III. What About Dad?
   A. Researchers are looking at the role of the father in determining the quality of life of the prenatal child.
   B. The main issue revolves around factors affecting the quality of the father’s sperm at the moment of conception.
      1. Sperm from fathers beyond the age of 35 or 40 may be partly the source of the genetic problems of Down syndrome.
      2. The father’s possible role in the transmission of STDs also is clear.
      3. Recent research also indicates that advanced paternal age is a risk factor for the development of autism.

IV. Sensory and Perceptual Development
   A. To some degree, all human senses are functioning at birth.
      1. The **neonate**—the newborn—can focus well on objects held one to two feet away, but everything nearer or farther appears out of focus until the child is about four months old.
      2. Neonates can hear nearly as well as adults.
      3. Newborns can respond to differences in taste and smell.
      4. Neonates can detect touch and temperature stimulation, and can feel pain.
B. A wide range of perceptual abilities develops during the first year.
   1. Infants prefer patterned over unpatterned stimuli, and moving over stationary stimuli.
   2. There is also a preference for patterns that look like human faces over patterns that do not.
   3. Young infants can discriminate among facial expressions of emotions and within a few hours after birth can recognize a picture of their own mother.

V. Cognitive Development
   A. Cognitive development refers to the age-related changes in learning, memory, perception, attention, thinking, and problem solving.
   B. Developmental psychologists look at cognitive development from two perspectives.
      1. The structural-functional approach, developed by Jean Piaget, says that structures (schemas) change with development, while functions remain fixed. Cognitive development is seen as a series of qualitative changes in intelligence.
      2. The information processing approach focuses on quantitative changes in basic information processing systems like memory, attention, and learning.

VI. Piaget’s Stages of Development
   A. A schema is an organized mental representation of the world that is adaptive and formed by experience.
   B. Piaget proposed that there are two basic functions or mechanisms that help a child adapt to the environment.
      1. Organization refers to one of the functions in Piaget’s theory and involves a predisposition to integrate individual schemas into organized units.
      2. Adaptation involves a child adapting cognitive abilities to the demands of the environment, and comprises two complementary processes.
         a. Assimilation occurs when a child incorporates new information into an existing scheme.
         b. Accommodation allows the infant to modify its schemas to account for new experiences.
   C. In the sensorimotor stage (birth to two years), children discover by sensing (sensori-) and doing (motor).
      1. Children learn about causality in this stage.
      2. Children learn about object permanence, an appreciation that an object no longer in view can still exist and reappear later.
      3. Imitation also develops during this stage.
   D. In the preoperational stage (two to six years), a child’s thinking is self-centered or egocentric.
   E. In the concrete operations stage (seven to eleven years) children begin to develop many concepts and show that they can manipulate those concepts.
      1. Rule-governed behavior begins in this stage.
      2. Conservation involves the awareness that changing the form or the appearance of something does not change what it really is.
   F. In the formal operations stage (twelve years and up), the logical manipulation of abstract, symbolic concepts appears.
VII. Reactions to Piaget
   A. Considerable research has supported many of Piaget’s insights about children.
   B. There are two major criticisms of Piaget’s theory.
      1. The borderlines between his proposed stages are much less clear-cut than his theory suggests.
      2. Piaget underestimated the cognitive talents of preschool children.
   C. Further criticisms suggest that object permanence appears earlier than age 2, and that Piaget’s theory gives little attention to the impact of language development and the gradual increase in the capacity of a child’s memory.
   D. Piaget’s theory was so detailed and thought provoking that it will challenge researchers for years to come.

VIII. The Information-Processing Approach
   A. The Development of Learning
      1. Classical conditioning and operant conditioning can be demonstrated with neonates.
      2. Imitation can be observed in infants as young as one week old.
   B. The Development of Memory
      1. Memory can be demonstrated in very young infants.
      2. Children as young as three can understand the temporal nature of events and form scripts of those events in memory.
      3. The most impressive gains take place between three and 12 years of age, both in short-term memory and long-term memory.
      4. Elaboration is a sophisticated memory strategy that is “discovered” late in childhood and is rarely used before adolescence.

IX. Moral Development
   A. Piaget believed that children are unable to make moral judgments until they are at least three or four years old.
   B. Lawrence Kohlberg proposed three levels of moral development.
      1. **Preconventional morality** in which the prime interest of the child is simply with the punishment that comes from breaking a rule.
      2. **Conventional morality** is based on an accepted social convention, where approval matters as much or more than anything else.
      3. **Postconventional morality** is the highest level of moral reasoning in Kohlberg’s theory in which moral reasoning reflects complex, internalized standards.
   C. The basic thrust of Kohlberg’s theory has merit and cross-cultural applications.
   D. Problems with the theory exist because few people operate at the higher stages, particularly in cultures that emphasize communal or group membership.
   E. **Collectivism** and **individualism** illustrate that what is true for one culture may not be for another, and neither is better or more moral.
   F. There may be a “disconnect” between what people may believe is the right and moral thing to do, and what they actual do in their behaviors.
   G. Carol Gilligan believes that the moral reasoning of females is different from that of males.
1. Women, Gilligan argues, are more likely to focus on caring, personal responsibility and relationships, while males focus on rules, justice, and individual rights.
2. Gilligan does not suggest that one approach to moral reasoning is any better or worse than the other.

X. Erikson’s Psychosocial Theory of Development
   A. Erik Erikson proposed an eight-stage theory of life-span development that has a cross-cultural basis.
   B. The first four stages are relevant for children:
      1. Trust vs. mistrust, during the first year of life, when the child either develops a basic sense of safety or insecurity and anxiety.
      2. Autonomy vs. self-doubt, from ages one and one-half to three years, when a child learns independence or experiences inadequacy.
      3. Initiative vs. guilt, from three to six years of age, when confidence is developed, or feelings of a lack of self-worth result.
      4. Competence vs. inferiority, from six years to puberty, adequacy in basic social and intellectual skills occurs, or a lack of self-confidence and feelings of inferiority may develop.

XI. Developing Gender Identity
   A. Gender refers to one’s maleness or femaleness; socially ascribed characteristics of males and females, as opposed to their biological characteristics.
   B. Cognitive psychologists believe that once children can discriminate between the sexes, they develop schemas for gender-related information.
      1. Encouraged by parents, children at an early age (1-year-old) have defined preferences for choices of toys.
      2. By the age of 3 or 4 children tend to gravitate toward same-sex play groups.
   C. Gender identity is the sense or self-awareness of one’s own maleness or femaleness.
      1. Most children develop gender identity by the age of 2 or 3.
      2. Once gender identity is established, it is very resistant to change.

XII. Developing Social Attachments
   A. Attachment is a strong emotional relationship between a child and his or her mother or primary caregiver.
   B. Strong attachments are most likely to be formed if the parent is optimally sensitive and responsive to the needs of the child.
      1. Attachment formation is a two-way process.
      2. It is more than simply a matter of spending time with a child.
      3. Secure attachments need not be with the mother only; they may involve the father or some other significant caregiver.
      4. Attachment patterns may have life-long ramifications.
   C. There are many benefits that result from secure attachment.
D. High-quality daycare facilities can foster both cognitive and social development.
   1. The quality of attachment in a daycare situation depends entirely on the quality of care provided.
   2. Both quality maternal care and daycare can work together to form secure attachments in infants and children.

XIII. SPOTLIGHT: Parenting Styles
A. Parenting styles are the overarching, general strategies that parents use to influence their children.
B. The classic model of parenting styles is that of Diana Baumrind, and describes three styles
   1. The indulgent (or permissive) style stressed acceptance, love, relationship-building, and tended to set few if any limits.
   2. The authoritarian parenting style imposes rules (usually without explanation), expects strict obedience and often uses punishment as a means of control.
   3. The authoritative style calls for clear rules, consistently enforced, often worked out in consort with children in the decision-making, and has high expectations.
C. By-and-large, most American parents (at least of the middle class and European background) use or try to use the authoritative parenting style.
   1. Differences across ethnic groups tend to be small.
   2. African American parents may tend toward the authoritarian style.
   3. Asian American families also tend toward the authoritarian style, and seek strong attachments between children and parents.
D. Judith Harris has argued that many parents put too much pressure on themselves, forgetting that socialization also depends on peers, classmates, and teachers — no matter what parents may do to influence their children.

IX. Adolescent Development
A. Adolescence is the period between childhood and adulthood, often begun at puberty and ending with full physical growth, generally between the ages of 12 and 20.
B. Adolescence can be described from a biological, psychological, or social perspective.
   1. In biological terms, adolescence begins with puberty, the stage of physical development at which one becomes capable of sexual reproduction.
   2. A psychological perspective emphasizes the development of cognitions, feelings, and behaviors that characterize adolescence.
   3. A social perspective defines adolescence in terms of being “in between,” not yet an adult, but no longer a child.
C. G. Stanley Hall and Anna Freud believed that adolescence was a time of turmoil and stress.
D. Many studies indicate that adolescents typically make adjustments in psychologically healthy ways.
X. The Challenge of Puberty
   A. The growth spurt is signified by a marked increase in height and weight, and usually occurs at an earlier age in girls than boys.
   B. Puberty occurs when one becomes physically capable of sexual reproduction.
      1. In females, this is indicated by the first menstrual period, called menarche.
      2. Boys seldom know when their puberty begins.
   C. Boys and girls who reach puberty before or after most of their peers are referred to as early or late bloomers.
      1. The consequences of reaching puberty early are more positive for males than for females.
      2. Being a late bloomer has negative implications for both males and females, although few consequences are lasting.

XI. The Challenge of Identity Formation
   A. One of the major tasks of adolescence is the resolution of an identity crisis, where there is a struggle to define a sense of self, what to do in life, and what one’s attitudes, beliefs, and values should be.
      1. The search for identity is the fifth stage of psychosocial development in Erikson’s hierarchy.
      2. According to Erikson, there may be role confusion at this time.
   B. Most of the conflicts between adolescents and their parents occur early in adolescence and generally are resolved by the end of adolescence.
   C. Marcia has identified four ways that identity issues can be resolved during adolescence: identity achievement, foreclosure, identity diffusion, and moratorium.
   D. In eight cross-cultural studies, Waterman found evidence of Marcia’s groupings.

XII. Technology and Social Media Use and Development
   A. Early research seemed to indicate that Internet use would adversely affect adolescent social networks.
   B. More recent research (e.g., Valkenburg & Peter, 2009) shows that modern technologies actually lead to enhanced connectedness and social well-being.
   C. There remains a concern of using technology to communicate with and form relationships with total strangers.
   D. Texting among teenagers has become very commonplace, leading some to characterize today’s generation of adolescents as “Generation Txt.”

XIII. Development During Early Adulthood
   A. The transition from adolescence to adulthood is marked by choices and commitments.
   B. Levinson has called it the “era of greatest energy and abundance and of greatest contradiction and stress.”

XIV. Marriage and Family
   A. Erikson claims that early adulthood revolves around the choice of intimacy or isolation.
      1. Eighty-five percent of Americans marry at least once.
2. Mate selection is a complex process that involves availability, eligibility, and attractiveness (physical and psychological).

B. David Buss believes that a person is likely to marry someone who is similar in almost every variable.

C. Approximately 50 percent of all first marriages end in divorce.

D. One of the best predictors of a successful marriage is the extent to which partners were able to maintain close relationships before marriage.

XV. The Transition to Parenthood

A. **Generativity** reflects a concern for family and for one’s impact on future generations.

B. As parents, men and women take on the responsibilities of new social roles of mother and father.

C. There is overwhelming evidence that marital satisfaction tends to drop during the child rearing years of a marriage.

D. Marital satisfaction increases again once the children leave the nest.
   1. The U-shaped curve representing marital satisfaction before, during, and after the child rearing years is one of the most reliable in the social sciences.
   2. Other research confirms that indicators of marital satisfaction tend to go down in the months immediately following the birth of a first child.

E. The most common explanation as to why dissatisfaction increases after the birth of a child is due to role conflict and role strain.

XVI. Career Choice

A. One’s choice and satisfaction of occupation affect self-esteem and identity.

B. Dual-career families are quite common.

C. Women make up about half of the professional workforce in the United States.

D. Career selection is driven by family influence and the potential for earning money.

E. Choosing a career involves exploration, crystallization, choice, career clarification, induction, reformation, and integration.

F. If a poor choice is made, one can work through the process again.

XVII. Development During Middle Adulthood

A. One must adjust to the physiological changes of middle age.

B. Middle-aged persons face a major set of challenges in learning to deal with family members.
   1. Dealing with teens and elderly parents places some middle-aged adults in what has been called the sandwich generation.
   2. Family members provide 80 percent of all day-to-day health care for the elderly.

C. Another task of this age is determining how to leave a mark on future generations.

D. Relating to one’s spouse and developing leisure-time activities can be a challenge for those who have previously been devoted to children and career.

XVIII. Development During Late Adulthood

A. The transition to late adulthood generally occurs in the early to mid-sixties.

B. By 2050, the number of people 65 and older will be nearly 78.9 million with an average life span of 82.1 years, the majority being women.
XIX. What It Means to Be Old
   A. **Ageism** is the name given to discrimination and prejudice against a group on the basis of age.
   B. Adults over 65 can be divided into young-old and old-old groups.
      1. The distinction is based on the psychological, social and health characteristics rather than actual age.
      2. This distinction reinforces the notion that aging is not some sort of disease.
   C. Adult children are more capable of caring for their parents in their old age.
      1. Fewer that 15% of Americans over the age of 65 live in nursing homes.
      2. Nursing home residence increases to about 25% by age 85.
   D. Not all people retire successfully.
      1. Availability of economic resources matters.
      2. Social relationships help retirement succeed.
      3. One’s personal health, education, and self-esteem also matter.
   E. With increased age often come increased physical problems.
      1. But, only 28% of the elderly report their health as fair or poor.
      2. Chronic illnesses (such as arthritis and osteoporosis) are more common in the elderly.
      3. The average 85-year old takes 8-10 prescription medications.
      4. With increasing age one often finds dramatic changes (decreases) in the duration and the quality of sleep.
   F. Close family relationships and involvement in effective exercise programs predict successful aging.

XX. Death and Dying
   A. Dealing with death is the last major crisis all must face.
   B. Although Kübler-Ross posited five stages in dealing with death, the descriptions may be idealized.
   C. Each person must face death in his or her own way.
      1. There is no “best” way to go about dying.
      2. The elderly are less morbid about dying than are adolescents.
      3. They may fear the process but do not fear the fact of their own death.
      4. Anxiety about death decreases in older persons of higher self-esteem, a sense of mastery over their lives, and social support.
LEARNING OBJECTIVES

1. Summarize the three stages of prenatal development.

2. Discuss the factors that can have a negative impact on prenatal development.

3. Summarize the newborn's sensory and perceptual abilities.

4. Define cognitive development, and differentiate between the two approaches to studying it.

5. Describe the cognitive skills that characterize each of Piaget's four cognitive stages.

6. Present the two main criticisms of Piaget's theory.

7. Discuss age-related changes in learning and memory.

8. Explain Kohlberg's theory of moral development and discuss its strengths and weaknesses.


11. Explain the development of gender identity and its effects on social development.

12. Discuss the importance of attachment and problems in forming attachments.

13. Define adolescence and discuss the two conflicting views of adolescence.

14. Describe puberty and the effects of early or late puberty on an individual.

15. Explain the challenge of identity formation in adolescence, and summarize the adolescent’s search for identity as described by Erikson.

16. List the four ways suggested by Marcia for resolving identity issues, and explain how age and identity status are related.

17. Describe the characteristic developments and issues of early adulthood.

18. Explain the issues involved in marriage, having children, and choosing a career from a psychological perspective.

19. Summarize the issues typically faced during middle adulthood.

20. Describe the elderly population in the United States and the problems associated with ageism.

22. Explain how elderly people feel about death.
Key Terms and Concepts

prenatal period

zygote

germinial stage

embryonic stage

fetal stage

point of viability

fetal alcohol syndrome

neonate

cognitive development

schemas

adaptation

assimilation

accommodation

sensorimotor stage
object permanence

preoperational stage

concrete operations stage

conservation

formal operations stage

preconventional morality

conventional morality

postconventional morality

gender

gender identity

attachment

adolescence

puberty

menarche

identity crisis
generativity

ageism
Practice Test Questions

Multiple Choice

1. Which of these developmental periods lasts the longest?
   ___a. embryonic period
   ___b. germinal period
   ___c. prenatal period
   ___d. fetal period

2. At which stage, or at what time, is the developing human at greatest risk of a physical defect?
   ___a. as a zygote
   ___b. during the embryonic stage
   ___c. as a growing fetus
   ___d. during the birth process

3. Which of these typically has the most adverse effect on the developing human organism?
   ___a. the mother’s inability to gain weight during pregnancy
   ___b. inadequate calcium intake during pregnancy
   ___c. having to take antibiotics, such as penicillin, during pregnancy
   ___d. alcohol use or abuse during pregnancy

4. On what basis were Piaget’s stages of development determined?
   ___a. the actual, chronological age of the child
   ___b. whether the child uses accommodation or assimilation
   ___c. the extent to which the child is egocentric or social
   ___d. how schemas are formed or modified with experience

5. Of the several criticisms of Piaget’s theory of development, which is LEAST reasonable?
   ___a. It lacks attention to cognitive processing.
   ___b. The divisions between stages are not as clear as Piaget asserted.
   ___c. Piaget underestimated to abilities of preschool children.
   ___d. It lacks a significant concern for cross-cultural differences.

6. The memory strategy of elaboration is generally first put in use
   ___a. within days after birth.
   ___b. by the time the frontal lobe has developed (about age 2).
   ___c. only after children have begun school (even kindergarten).
   ___d. early in adolescence.

7. Melanie is 9 years old. She can easily get to school and back, a distance of six city blocks. On the other hand, she has great difficulty telling you how she manages the trip to school and back each day. Melanie is in Piaget’s __________ stage of cognitive development.
   ___a. sensorimotor
   ___b. preoperational
   ___c. concrete operations
   ___d. formal operations
8. Kohlberg’s theory of development focuses mainly on the development of
___a. cognitive representations, called schemas.
___b. strategies that children use to learn.
___c. morality and a sense of right and wrong.
___d. how children and adolescents interact with each other.

9. Of these, which is the largest difference between Piaget’s theory and Erikson’s theory of
development? Erikson’s theory
___a. relies less on the notion of stages.
___b. was based on experiments, not observations.
___c. is more relevant for boys than for girls.
___d. describes development through the lifespan.

10. Which observation about the development of gender identity is most supported by cross-
cultural evidence?
___a. Girls relate better with their mothers, while girls relate better with their fathers.
___b. Children show no particular preferences for toys; they prefer to play with whatever
their parents what them to.
___c. Right from birth, there are significant differences in temperament or “difficulty”
between boys and girls.
___d. By the age of three or four years and throughout their early school years, children
prefer same-sex playmates.

11. If secure attachment is going to occur, it will occur for most children (nearly two-
thirds) when they are
___a. born. ___c. five years old.
___b. one year old. ___d. about to become teenagers.

12. Everything else being equal, of course, which parenting style is most likely to foster
academic achievement, self-esteem, and self-reliance?
___a. permissive ___c. indulgent
___b. authoritative ___d. authoritarian

13. Which of these observations about adolescence is most valid?
___a. It is a developmental stage through which many individuals will not pass
successfully.
___b. It is a developmental stage defined in terms of stress, turmoil, and abnormality.
___c. It is a developmental stage through which most pass in psychologically adaptive
ways.
___d. It is a developmental period—the only one—defined in biological terms.

14. Which “biological” phenomenon is LEAST associated with the onset of adolescence?
___a. penile erections and nocturnal emissions in boys
___b. a growth spurt in both boys and girls
___c. menarche in girls
___d. the appearance of secondary sex characteristics
15. Which observation concerning menarche is TRUE?
   ___a. It is found more commonly in boys than in girls.
   ___b. It occurs, on average, at a younger age than it did 100 years ago.
   ___c. It generally occurs two to three years before puberty begins.
   ___d. It is produced, or triggered, by an increased level of androgens.

16. At the time of their puberty, or in their early adolescence, who seems to benefit the MOST?
   ___a. early-blooming males
   ___b. early-blooming females
   ___c. late-blooming males
   ___d. late-blooming females

17. Which of Piaget’s stages of development is best associated with adolescence?
   ___a. identity formation
   ___b. postconventional reasoning
   ___c. identity achieved
   ___d. formal operations

18. What two concepts, taken together, best characterize the beginning of adulthood?
   ___a. independence and interdependence
   ___b. death and dying
   ___c. growth and development
   ___d. assimilation and accommodation

19. For Erikson, early adulthood is best characterized in terms of
   ___a. competence vs. inferiority.
   ___b. ego-identity vs. despair.
   ___c. intimacy vs. isolation.
   ___d. generativity vs. stagnation.

20. The evidence suggests that — in general, of course — a woman is most likely to choose to
    marry someone who
    ___a. she believes to be most like herself.
    ___b. she believes will earn the most money in his lifetime.
    ___c. is physically most attractive.
    ___d. is most unlike, or opposite from, her father.

21. Of all the concerns that one might have about the characteristics of a mate, the one trait that
    varies most widely from culture to culture seems to be
    ___a. chastity.
    ___b. intelligence or wisdom.
    ___c. earning potential.
    ___d. kindness.

22. Which of the following best characterizes the elderly in the United States?
    ___a. Most of them (more than 50%) require supervision of the sort found in nursing homes.
    ___b. Most of them (more than 50%) are preoccupied with thoughts of their own deaths.
    ___c. Most (more than 75%) are vigorous and healthy.
    ___d. Most (nearly 65%) list their health as a serious problem.

23. According to Kübler-Ross, the final stage in facing one’s own death is the stage of
    ___a. anger.
    ___b. denial.
    ___c. acceptance.
    ___d. joy.
True/False

1. ____True ____False  Fetal alcohol syndrome includes the likelihood of intellectual retardation.

2. ____True ____False  Because of its beneficial effects on cardiovascular functioning, pregnant women are now being advised to drink at least 1, but no more than 3 glasses of red wine each day.

3. ____True ____False  In humans, the sense of smell does not begin to develop until at least two to three months after birth.

4. ____True ____False  In developing his theories of cognitive development, Piaget seems to have underestimated the cognitive skills of very young, preschool children.

5. ____True ____False  Carol Gilligan has argued that with regard to moral development, there are no sex differences in morality, but that males and females approach moral dilemmas differently.

6. ____True ____False  Whether a child will become securely attached depends on the behaviors of the child as well as the behaviors of the care-giver.

7. ____True ____False  Most adolescents are seriously troubled, rebellious, and uncooperative.

8. ____True ____False  Boys profit from early maturity more than girls do, and they suffer more from late maturity.

9. ____True ____False  Any sort of experimentation with drugs by adolescents will have long-term negative consequences.

10. ____True ____False  The use of technologies such as instant messaging, texting, and social media (e.g., Facebook) have had a significantly adverse impact on the socialization of adolescents.

11. ____True ____False  Most young adults are unhappy or dissatisfied with their first career choice.

12. ____True ____False  Most Americans (male and female) experience a real mid-life crisis, accompanied by the realization that “time is running out,” and that they may not get to do all that they wanted to do.
Answers to Practice Test Questions

Multiple Choice

1. c  Be careful here. The germinal period and periods of the embryo and the fetus all taken together make up the prenatal period. Within that period, the fetal period is the longest.

2. b  It is when the organism is in the form of an embryo that it is most sensitive to the formation of physical defects.

3. d  Alcohol abuse is certainly the most devastating factor leading to birth defects of these listed, but even moderate alcohol consumption is generally discouraged.

4. d  The different stages of Piaget’s theory are defined in terms of how the child goes about forming or modifying schemas on the basis of his or her interaction with the environment.

5. a  Actually, such a “criticism” would be absurd. Piaget’s is, after all, a theory of cognitive development.

6. d  memory strategies in general do not appear until the school years. Using elaboration techniques is a strategy that does not really get put into use until very late in childhood or, more commonly, at the beginning of adolescence.

7. c  Melanie is probably in Piaget’s stage of concrete operations, which would be typical for a nine-year-old. (Did it bother you that this item is “out of order”? This is something for which you need to be alert.)

8. c  Kohlberg’s is referred to as a theory of moral development.

9. d  Erikson’s stages of development are equally relevant for boys and girls and were based on observation. What makes his stages different is that they extend through adolescence and adulthood, whereas Piaget’s do not.

10. d  There is virtually no evidence to be found — in any culture — for the first three observations, whereas the fourth choice has considerable support, even across many cultures.

11. b  About 65 percent of children in the United States (and around the world) will form attachments during their first year.

12. b  Of course you know to be careful with glittering generalities such as this one, but in most cases—and regardless of ethnic group membership—the authoritative style fosters self-esteem, self-reliance, and academic achievement to a greater extent than the other styles.

13. c  Although some (including G. Stanley Hall and Anna Freud) would claim that alternative b is correct, current thinking would make alternative c your best choice. Alternatives a and d are almost silly.

14. a  Penile erections and nocturnal emissions typically occur for some time before puberty in boys, which is indicated by the presence of live sperm cells.

15. b  Menarche occurs in girls, not boys; defines the beginning of puberty; is triggered by estrogens, not androgens, and—for reasons not fully understood—seems to be occurring at a younger age than ever before in history.

16. a  At least at the time of their adolescence, early-maturing boys seem to experience an “advantage” over the other named groups.

17. d  The first three alternatives are not even associated with Piaget.
18. a Although at first they may appear contradictory, independence and interdependence characterize early adulthood.

19. c Here again, this item hinges on your knowledge of Erikson’s stages. Early adulthood is associated with conflicts between intimacy and isolation.

20. a Aren’t some of these alternatives funny? What I am getting at here is the observation that mate selection is most often based on similarities, not that “opposites attract.”

21. a And the range of concern is very wide from one culture to another.

22. c There is no doubt that the only alternative here that is even close to being true is the third one.

23. c Not everyone “buys” Kubler-Ross’s scheme, of course, but her stages are, in order: denial, anger, bargaining, depression, and acceptance.

True/False

1. T There are many signs and symptoms associated with fetal alcohol syndrome (retarded physical growth, poor coordination, poor muscle tone, etc.). By definition, one sign is mental retardation.

2. F Hardly! Pregnant women are being advised to abstain from any and all alcoholic beverages.

3. F Not only does it begin to develop long before birth, but at birth, the neonate’s sense of smell is rather well developed.

4. T Yes, this is one of the most common criticisms of Piaget’s theory.

5. T Most of Kohlberg’s theory of moral development was based on the study of males. Gilligan suggests that females may have a different style of morality than do males.

6. T There is simply no doubting that attachment formation is a two-way process.

7. F To some of us (and to parents of adolescents in particular) this may appear to be true, but it isn’t. It reflects more of an incorrect stereotype than reality.

8. T This is about as nice a summary statement about early and late maturation as I can muster.

9. F Again, some of us may want to think of this statement as true, but the evidence suggests that it is, in fact, false. What matters here, of course, is largely a matter of degree.

10. F Although there was a time when there were some serious doubts about the adverse affects of the Internet and technology on forming and maintaining social relationships, the evidence is now clear that such fears were unfounded.

11. T This true statement is lifted nearly verbatim from the text.

12. F We often hear this used as an “excuse” for some pretty silly behaviors by middle-aged adults, but there is little hard evidence for a general period or stage of development that we can characterize as a mid-life crisis.
Ageism is a discriminatory practice or negative stereotype formed solely on the basis of age. Although ageism can occur with regard to persons of any age, it is most often directed at the elderly. Here is a simple, 10-item, true/false quiz about the elderly. Use it to see if you can detect any signs of ageism in the responses.

Indicate whether each of the following statements is “true” or “false.” Consider “younger” to refer to persons under 65 years of age and “older” to refer to those over 65 years of age.

- Older people are more likely than younger people to attend church.
- Older people are more cautious and less likely to make risky decisions than are younger people.
- As people age, they tend to become more like each other.
- Older people have more difficulty than do younger people in adapting to a changing environment.
- A decrease in life satisfaction is usually experienced by older persons.
- The majority of persons over 65 live in nursing home or assisted-living institutions.
- Mental disorders occur more frequently among older people than among younger people.
- Depression is more common in older people than in younger people.
- Decreasing intelligence as measured by IQ tests, and other measures of cognitive functioning, is one of the inevitable changes that occurs with increasing age.
- Aging of the brain leads the way for the deterioration of other bodily systems and functions.

Scoring this “quiz” is very easy as each item is worded so that it is false.
Psychology on the Internet

1. DEVELOPMENT THROUGHOUT CHILDHOOD

This is such a rich, full chapter, I thought we’d try something a little different. Rather than small, specific websites, those listed below are large mega-sites. At first glance, of course, most are very broad and general in their coverage. But what makes them mega-sites is that they provide many links to get you where you want to go. Interestingly, many sites on child development are very practical in their orientation, offering advice (and materials for sale) to parents of children of all ages. Getting around these sites may take a little more pointing and clicking, but it will be worth it.

http://www.childdevelopmentinfo.com
(Difficult to argue with this address isn’t it? It is the home page of the “Child Development Institute,” founded and is operated by Robert F. Meyers, Ph.D., a clinical child psychologist, and has the recommendation of the A.P.A.)

http://www.babycenter.com
(This is a very general site, crammed with useful information for parents and parents-to-be — you also might try: http://www.parentcenter.com website.)

http://www.nacd.org
(the site of the National Association for Child Development—largely aimed at “children with learning inefficiencies” – Navigation can be difficult; be patient; start with colored boxes, upper left)

http://www.nichd.nih.gov
(the website for the National Institute of Child Health and & Human Development of the U.S. National Institutes of Health — very much research-based, with an eye toward advising on national policy issues)

http://www.srcd.org
(the website for the Society for Research in Child Development, a multi-disciplinary professional organization with an international membership of about 5,000 researchers, practitioners, and human development specialists. It provides many useful links, particularly one to their list of publications.)
http://www.nbcdi.org
(the website for the National Black Child Development Institute—for over 30 years its mission has been “to improve and protect the lives of children.”)

http://www.unicef-icdc.org
(the website of UNICEF and the “Innocenti Research Centre,” providing a view of child development from an international perspective.)

http://www.piaget.org
(“The Jean Piaget Society” may be excused for being a little less than totally objective about Piaget. It is difficult to imagine what you might want to learn about Piaget that you couldn’t find here.)

http://www.attachmentparenting.org
(a comprehensive site on attachment)

2. ADOLESCENT DEVELOPMENT

The challenge in searching for useful websites about this topic is to avoid those sites that are too broad, aimed mostly at providing advice to a general audience. After all, “adolescence” is a concept that covers a large range of issues. As you can imagine, for many of these issues there is a fine line between explanation (“These are the challenges of puberty.”) and advice-giving (“Here is how to deal with the challenges of puberty.”) Here are a few sites that are related to—or at least resonate with—adolescence.

http://www.teenpuberty.com
(a rather strange website, purporting to be “your complete resource for teen-health issues.” It has major links to “Female Puberty,” “Male Puberty,” “Drugs,” “General Health,” “Psychological,” and “STDs.” The links were well done, informative, and largely aimed at a teenage audience.)
http://www.puberty101.com
(founded by a therapist specializing adolescence, this site provides many useful links — to puberty, STDs, drug abuse, and mental health concerns)

http://www.aap.org/family/puberty.htm
(an authoritative piece on puberty from the website of the American Academy of Pediatrics — it is regularly updated)

http://www.med.umich.edu/1libr/yourchild/puberty.htm
(The University of Michigan Health Systems maintains this very useful site on early puberty. It is well written, referenced, brief, and provides an excellent summary.)

http://monitoringthefuture.org
(The subtitle of this huge website is “a continuing study of American youth”. This is the main source of survey data and information on teenage drug use and abuse, with a link to http://www.nida.nih.gov

http://www.teenpregnancy.org
(the goal of this website is to provide information and advice to reduce teen pregnancies. It is a bit heavy-handed in places, but there are excellent links available here. Check out “Research, Resources, and Information.”)

3. DEVELOPMENT DURING EARLY, MIDDLE, AND LATE ADULTHOOD

Psychologists may talk about three different sub-stages of adulthood—early, middle, and late — but the Internet seldom makes such distinctions. For ease of reading, I have simply put websites on adulthood together here.

http://www.mc.maricopa.edu/dept/d46/psy/dev/early_adult
(This website offers little new information. What it does do is provide organized links to several very useful sites/resources.)
http://www.hewlett.org/Archives/Publications

(a great 76-page article, “A Portrait of Well-Being in Early Adulthood,” in pdf format, and being as long as it is, it does take awhile to download. This is one excellent review article.

http://www.successfulaging.ca

(here is a very pleasant, positive little website — there are links to serious issues, but I will admit to spending altogether too much time on the links “Humor” and “Recipes”)

http://hdcs.fullerton.edu/csa

(Compared to the previous site on the same topic, this one is much more academic. It comes from the Center for Successful Aging at California State University Fullerton. If noting else, visit “Related Links.”


(There are many websites on the Internet devoted to the topics of death and dying. I would put this one at the top of the list. For one thing, it professes no one particular point of view on the matter. It is kept current and has scores of links to matters statistical, legal, practical, and so much more.)

http://www.hospicenet.org

(For practical advice on how to prepare for and cope with the reality of death and dying, it is difficult to imagine a better, more experienced group than the folks at Hospice. This site is labeled, “For patients and families facing life-threatening illness …”