

Student name: \_\_\_\_\_

1) The important studies by Thomas Bouchard and his colleagues of identical twins reared apart have been conducted

- A) in Australia.
- B) in Sweden.
- C) at Harvard University.

D) at the University of Minnesota.

2) When twins are genetically identical, they

- A) come from the same fertilized egg.
- B) come from two different fertilized eggs.
- C) are not the same sex.

D) None of the answer choices are correct.

3) When twins are dissimilar genetically, they

- A) come from the same fertilized egg.
- B) come from two different fertilized eggs.
- C) have different genetic makeups.

D) come from two different fertilized eggs and have different genetic makeups.

4) The Minnesota study of identical twins emphasizes

- A) that the scientific structure of twin studies is inherently flawed.
- B) the equal influence of environment and genetic factors on human development.
- C) the primacy of environmental influences over

genetic ones in human development.

D) the importance of the genetic basis of human development.

5) Which of the

following might be responsible for the similar tastes and habits and choices of the identical twin subjects of the

- A) Some twins had contact prior to the separation.
- B) The researchers failed to follow proper documenting techniques.
- C) When questioned, subjects typically tend to try to

6) The evolutionary process that favors individuals that are best designed to reproduce and survive is called

- A) cultural evolution.
- B) adaptation.
- C) natural selection.

7) Who is best associated with the process of natural selection?

- A) Aristotle
- B) William James

8) Charles Darwin believed the species who do survive to reproduce are probably superior in a number of ways to those who do not. This means

- A) the same thing as natural selection.
- B) the survivors are better adapted to their world.
- C) a gradual modification of an entire population

Minnesota Study of twins reared apart, other than genetic reasons?

match up their answers.

D) Adoption agencies may have coached the twins to give similar answers.

D) biological determinism.

- C) Charles Darwin
- D) Sandra Scarr

could occur.

D) All answer choices are correct.

9) In 1859, Charles Darwin published his observations and thoughts in a book entitled

- A) *Nature's Selective Process.*
- B) *On the Origin of Species.*
- C) *The Adaptation Process.*

D) *Superiority of the Species.*

10) Six-month-old Sally's closeness to her mother and father ensures feeding and protection. Her attachment is considered

- A) conditioned.
- B) adaptive behavior.
- C) biologically determined.

D) culturally determined.

11) Behavior that promotes the organism's survival in its natural habitat is called

- A) determinism.
- B) cultural evolution.
- C) thriving behavior.

D) adaptive behavior.

12) The approach emphasizing the importance of adaptation, reproduction, and "survival of the fittest" in explaining behavior is

- A) sociobiology.
- B) evolutionary psychology.

C) ethology.  
D) contextual life course theory.

**13)** The approach of evolutionary psychology

- A) has been in use for several hundred years.
- B) is based on Bandura's theory of evolution by natural selection.
- C) emphasizes adaptation and reproduction in behavior.

D) is several hundred years old and is based on Bandura's theory of evolution by natural selection.

**14)** David Buss's ideas on evolutionary psychology have ushered in a whole new wave of interest in how evolution can explain human behavior. He believes that evolution can

- A) influence mating patterns.
- B) influence how we make decisions.
- C) influence how aggressive we are.

D) All answer choices are correct.

**15)** When looking at the views proposed by evolutionary developmental psychologists, it is true that humans spend more time to reproductively mature than any other mammal. This is called

- A) the course of childhood evolution.
- B) evolutionary immaturity.
- C) childhood evolutionary functioning.

D) an extended childhood period.

**16)** What does the statement "Many evolved psychological mechanisms are domain-specific" mean?

- A) Abilities are developed to help deal with recurring problems faced by ancestors.
- B) The mind consists of a set of specialized modules and is not a general-purpose device that can be applied equally.

C) Both answer choices are correct: Abilities are developed to help deal with recurring problems; and the mind consists of a set of

specialized modules and is not a general-purpose device.

D) None of the answer choices are correct.

17) Who is associated with social cognitive theory?

A) Charles Darwin

B) Sigmund Freud

C) Albert  
Bandura

D) Jean Piaget

18) Albert Bandura rejects one-sided evolutionism, in which

A) social behavior is the product of evolved biology.

B) cognitive behavior is the product of evolved humanism.

C) the theory is only applied to animals.

D) social  
behavior is completely  
unrelated to evolved  
biology.

19) In the \_\_\_\_\_ view of social cognitive theory, evolutionary pressures create changes in biological structures for the use of tools, which enable organisms to manipulate,

A) one-sided evolutionism

B) physical evolutionism

alter, and construct new  
environmental conditions.

C) bidirectional

D)  
monodirectional

20) \_\_\_\_\_ are threadlike structures made up of deoxyribonucleic acid, or DNA.

A) Chromosomes

B) Cells

C) Zygotes

D) Genomes

21) Each of us carries a genetic code that we inherit from \_\_\_\_\_ and this code is located within \_\_\_\_\_ in our body.

- A) other cells; some cells
- B) our parents; every cell
- C) sperm only; some cells

D) the egg only;  
every cell

22) In describing the shape of a DNA molecule, the best analogy is that of a(n)

- A) iceberg.
- B) spiral staircase.

C) pentagon.  
D) "X."

23) \_\_\_\_\_ are units of heredity information; they are short segments of DNA.

- A) Chromosomes
- B) RNA

C) Genes  
D) Abnormalities

24) *DNA* stands for

- A) divided nuclear atoms.
- B) demonstrated natural alignment.
- C) deoxyribonucleic acid.

D) None of the  
answer choices are correct.

25) \_\_\_\_\_ are the units of hereditary information. They help cells to reproduce themselves and to assemble proteins.

- A) Chromosomes
- B) Autosomes

C) Ovaries  
D) Genes

26) The Human Genome Project completed a preliminary map of the

- A) human genome.
- B) animal genome.
- C) genetic expression.

D) All answer choices are correct.

27) The surprising information from the Human Genome Project was that while previously humans were thought to have about \_\_\_\_\_ genes, estimates now are closer to \_\_\_\_\_.

- A) 5,000; 7,000
- B) 100,000; 43,000

C) 10,000; 1,000  
D) 7,000;  
100,000

28) The activity of genes or \_\_\_\_\_ is affected by environment and hormones that circulate in the blood.

- A) reproduction
- B) genetic expression

C) genetic stability  
D) meiosis

29) The main approaches to gene identification and discovery today include

- A) linkage analysis.
- B) genome-wide association.
- C) next generation sequencing.

D) All answer choices are correct.

- A) temperature
- B) radiation

- C) stress
- D) All answer choices are correct.

31) Research has found that exposure to \_\_\_\_\_ has changed the rate of DNA synthesis in cells.

- A) physical exercise
- B) radiation

- C) stress
- D) pollution

32) \_\_\_\_\_ is the process by which each chromosome in the cell's nucleus duplicates itself.

- A) Mitosis
- B) Meiosis

- C) Reproduction
- D) None of the answer choices are correct.

33) \_\_\_\_\_ is when a cell of the testes (in men) and ovaries (in women) duplicates its chromosomes and divides twice, thus forming four cells, each of which has only half of

the genetic material of the parent cell.

- A) Mitosis
- B) Meiosis

- C) Reproduction
- D) None of the answer choices are correct.

34) The nucleus of each human cell, except gametes, contains \_\_\_\_\_ pairs of chromosomes.

- A) 15
- B) 23

- C) 46
- D) 50



35) In females, the gametes are created in the

- A) cervix.
- B) ovaries.

- C) fallopian tubes.
- D) vagina.

36) A single cell formed through fertilization is called a(n)

- A) ovum.
- B) gamete.

- C) zygote.
- D) embryo.

37) \_\_\_\_\_ is the person's genetic heritage, the actual genetic material.

- A) Genotype
- B) Phenotype
- C) Dominant makeup

- D) None of the answer choices are correct.

38) \_\_\_\_\_ is the way an individual's genotype is expressed in observed and measurable characteristics.

- A) Genotype
- B) Phenotype
- C) A recessive trait

- D) None of the answer choices are correct.

39) \_\_\_\_\_ consist(s) of observable characteristics, including physical characteristics and psychological characteristics.

- A) Genotype
- B) Chromosomes

- C) Phenotype

D) None of the answer choices are correct.

40) \_\_\_\_\_ consists of all of the person's genetic material.

- A) Genotype
- B) A chromosome

- C) Phenotype
- D) None of the answer choices are correct.

41) Genotype is to phenotype as genes are to

- A) the environment.
- B) polygenics.

- C) recessiveness.
- D) observable characteristics.

42) Observation of your skin pigmentation reflects your

- A) allele.
- B) gene locus.

- C) genotype.
- D) phenotype.

43) Which of the following is a phenotype?

- A) height
- B) weight
- C) skin pigmentation

- D) All answer choices are correct.

44) When asked to list examples of his phenotype, Doug would include all of the following EXCEPT

- A) skin color.
- B) DNA configuration.

- C) height.

D) intelligence level.

**45)** If one gene of a pair is dominant and one is recessive, the dominant gene exerts its effect, overriding the potential influence of the other, recessive gene. What is this called?

- A) gene-affected therapy
- B) genetic surgery
- C) the dominant-recessive genes principle

D) None of the answer choices are correct.

**46)** According to the \_\_\_\_\_ principle, if one gene of a pair is dominant and one is recessive, the dominant gene exerts its effect, overriding the potential influence of the other, recessive gene.

- A) sex-linked genes
- B) dominant-recessive genes

- C) polygenically-inherited characteristics
- D) reaction range

**47)** There is only one case in which a recessive gene exerts its influence. This is when

- A) two genes of a pair are both recessive.
- B) one gene is recessive and one is dominant.
- C) two genes of a pair are both dominant.

D) None of the answer choices are correct.

**48)** Both Bob and Sally have brown eyes, yet their newborn son has blue eyes. This can happen because

- A) all infants have blue eyes that eventually turn brown.
- B) each parent was carrying a dominant gene for brown eyes.

C) blue eyes are

dominant.

D) each parent was carrying a recessive gene for blue eyes.

49) What is the chromosomal pattern for females?

- A) XX chromosome pattern
- B) XY chromosome pattern
- C) XXY chromosome pattern

D) YY  
chromosome pattern

50) \_\_\_\_\_ is a mechanism in which genes have been modified in one of the parents and have differing effects depending on whether they are transmitted to the offspring through the egg or sperm.

- A) Polygenic inheritance
- B) Genetic imprinting
- C) Genetic transmission

D) X-linked  
disease

51) Polygenic inheritance is produced by

- A) a dominant gene pair.
- B) a recessive gene pair.
- C) the interaction of many genes.

D) random  
genetic mutation.

52) Dr. Pierce examines a 10-year-old who has an intellectual disability, motor disability, distinctive facial features, and an extra 21st chromosome. Given this

- A) PKU.
- B) XYY syndrome.

information, Dr. Pierce's  
diagnosis would most  
likely be

C) Down  
syndrome.  
D) anencephaly.

- A) extra
- B) distorted

- C) diseased
- D) elongated

**54)** Women between the ages of \_\_\_\_\_ and \_\_\_\_\_ are less likely to give birth to a child with Down syndrome

than are younger or older women.

- A) 15; 20
- B) 16; 34

- C) 25; 30
- D) None of the answer choices are correct.

**55)** Down syndrome appears approximately once in every \_\_\_\_\_ live births.

- A) 100
- B) 200

- C) 700
- D) 1,000

**56)** Tim is extremely tall, and he has undeveloped testes and enlarged breasts. What genetic disorder does Tim most likely have?

- A) sickle-cell anemia
- B) Down syndrome
- C) fragile X syndrome

- D) Klinefelter syndrome

**57)** Greg has been diagnosed with Klinefelter syndrome. What is his chromosomal pattern?

- A) XXY
- B) XYY

- C) XO
- D) XY

58) Harriet has been diagnosed with Turner syndrome.

What is her chromosomal

- A) XX
- B) XO
- C) XY
- D) XYY

**59)** Stacy has a short stature and a webbed neck. She has an intellectual disability and is sexually underdeveloped.

- A) Turner syndrome
- B) Klinefelter syndrome
- C) phenylketonuria

What genetic disorder does Stacy have?

- D) sickle-cell anemia

**60)** What genetic disorder occurs only in females?

- A) Down syndrome
- B) Turner syndrome
- C) XYY syndrome

- D) Klinefelter syndrome

**61)** It was once thought that individuals with a(n) \_\_\_\_\_ chromosome pattern were predisposed to aggression and violence.

- A) XX
- B) XY

- C) XXY
- D) XYY

**62)** Ken has been diagnosed with phenylketonuria. If it is left untreated, what will result?

- A) death
- B) blindness
- C) intellectual disability and hyperactivity

- D) language problems and hearing loss

**63)** Jake has a genetic disorder that is treated by diet. He has

- A) PKU.



- B) Turner syndrome.
- C) sickle-cell anemia.

D) Klinefelter syndrome.

**64)** What genetic disorder occurs more often in persons of African descent?

- A) Down syndrome
- B) sickle-cell anemia

C) hemophilia  
D) Klinefelter syndrome

**65)** Which of the following is caused by a genetic abnormality?

- A) cystic fibrosis
- B) spina bifida

C) hemophilia  
D) All answer choices are correct.

**66)** One out of \_\_\_\_\_ African Americans is a carrier of sickle-cell anemia.

- A) 5
- B) 8

C) 10  
D) 20

**67)** Nika, who is from Kenya, has been ill most of her life because of a blood disorder that prevents some of her body's cells from receiving oxygen. Nika likely suffers from

- A) phenylketonuria.
- B) hemophilia.
- C) Tay-Sachs disease.

D) sickle-cell anemia.

68) Which one of the following statements about genetic

A) They identify families at risk by analyzing inheritance patterns and explore options with the family.

B) They can work in administrative positions or conduct research.

C) They can serve as educators and resource people for other health care professionals and the public.

counselors is NOT correct?

D) They must have only an undergraduate degree in order to function as genetic counselors.

69) Genetic counseling

A) helps people determine if they have genetic disorders.

B) involves analyzing genetic inheritance patterns.

C) can be specialized in prenatal and pediatric

genetics.

D) All answer choices are correct.

70) Which of the following is NOT a prenatal test used to determine abnormalities?

A) amniocentesis

B) in vitro fertilization

C) chorionic villus sampling

D) maternal blood screening

71) \_\_\_\_\_ is a prenatal medical procedure in which high-frequency sound waves are directed into the pregnant woman's abdomen. This test can detect many structural abnormalities in the fetus.

A) Amniocentesis

B) An alpha-fetoprotein test

C) Ultrasound sonography

D) Chorionic villus sampling

72) During which of the following tests is an actual tissue sample removed from the placenta?

- A) ultrasound sonography
- B) amniocentesis
- C) alpha-fetoprotein test

D) chorionic villus sampling

73) When can the chorionic villus sampling test be done?

- A) between 10 and 14 weeks of pregnancy
- B) between 12 and 16 weeks of pregnancy
- C) between 14 and 20 weeks of pregnancy

D) anytime throughout the pregnancy

74) Between week 14 and week 20 of Christa's pregnancy, a prenatal medical procedure was done in which a sample of amniotic fluid was withdrawn by syringe and tested to discover if the fetus was suffering from any chromosomal

or metabolic disorders. What is this procedure called?

- A) maternal blood test
- B) ultrasound

C) amniocentesis  
D) chorionic villus sampling

75) Certain defects can be determined from maternal blood screening of a high-risk pregnant woman. What are two

examples of these birth defects?

- A) sickle-cell and diabetes
- B) diabetes and cystic fibrosis
- C) autism and language delays

D) spina bifida and Down syndrome

- A) Down syndrome.
- B) cystic fibrosis.
- C) the infant's gender.

D) All answer choices are correct.

77) *Infertility* is defined as the inability to

- A) ever conceive a child.
- B) ovulate on a regular cycle.
- C) experience orgasm during intercourse.

D) conceive a child after one year of regular intercourse.

78) Which of the following is a possible cause of a woman's infertility problems?

- A) The woman may not be ovulating.
- B) The woman may be producing abnormal ova.
- C) Her fallopian tubes may be blocked.

D) All answer choices are correct.

79) Which of the following is a possible cause of a man's infertility problems?

- A) The male may produce too few sperm.
- B) The sperm may lack motility (the ability to move adequately).
- C) The male may have a blocked passageway.

D) All answer choices are correct.

80) Which infertility treatment technique is the most common?

- A) in vitro fertilization
- B) gamete intrafallopian transfer
- C) intrauterine insemination

D) zygote intrafallopian transfer

81) *In vitro fertilization* refers to

- A) allowing a fetus to grow outside the body.
- B) removal of a fertilized ovum from the mother's body.
- C) fertilization of an ovum outside of the mother's

body in a laboratory.

D) fertilization of an ovum inside the mother's body through artificial insemination.

82) One prevalent consequence of fertility treatments is

- A) a decreased possibility of multiple births.
- B) making multiple births impossible.
- C) an increased possibility of multiple births.

D) birth of fraternal twins, but not identical twins.

83) A longitudinal study in Denmark investigated whether or not there were differences in behavior or mental health problems between children conceived through ART or those

conceived naturally. What were the findings of the study?

- A) Children conceived naturally actually showed higher rates of behavioral problems.
- B) Children conceived through ART showed higher rates of both behavioral and mental health problems.
- C) Children conceived through ART showed higher rates of behavioral problems but not higher rates of mental

health problems.

D) There were no significant differences found.

84) \_\_\_\_\_ is/are the social and legal process(es) by which a parent-child relationship is established between persons unrelated at birth.

- A) Babysitting
- B) Sibling establishment

C) Adoption

D) Babysitting and sibling establishment

**85)** In the past several decades, ideas regarding who can adopt a baby have changed. Who among the following are permitted to adopt a child under current adoption laws?

- A) single adults
- B) older adults
- C) gay and lesbian adults

D) All answer choices are correct.

**86)** In a study by McCall and others (2018), it was found that the later adoption occurs, the more problems the adoptees have. Infant adoptees who have the least adjustment issues are

- A) 6 months
- B) 24 months

those adopted before they are \_\_\_\_\_ of age.

- C) 18 months
- D) 3 years

**87)** In recommendations made by Brodzinsky and Pinderhughes (2002) an ideal/natural age for adopted children to be told about their familial status is \_\_\_\_\_, when

- A) 2–4
- B) 4–6

children often begin to ask, “Where did I come from?”

- C) 8
- D) 11

**88)** \_\_\_\_\_ is the field that seeks to discover the influence of heredity and environment on individual

- A) Biodynamics
- B) Canalization
- C) Behavior genetics

differences in human traits and development.

D) Environmental influences

- 89) As a behavior geneticist, which of the following is Dr. Powers most likely to use
- A) rats
  - B) geriatric patients
  - C) identical twins
  - D) individuals with psychological disorders

**90)** Behavior genetics assumes that behaviors are jointly determined by the interaction of

- A) heredity and environment.
- B) environment and nutrition.
- C) nutrition and time span.

D) time span and heredity.

**91)** The difference in the genetic relationship between two fraternal twins versus two identical twins is critical to

- A) identical twins have more canalized traits.
- B) fraternal twins have significantly different environmental experiences.
- C) identical twins are more genetically similar than

behavior genetics-based research because

fraternal twins.

D) fraternal twins have a much smaller range of reactions.

**92)** \_\_\_\_\_ correlations occur because biological parents who are genetically related to the child provide a

- A) Active (niche-picking) genotype-environment
- B) Evocative genotype-environment
- C) Passive genotype-environment

rearing environment for the child.

D) Shared environmental

**93)** \_\_\_\_\_ correlations occur because a child's characteristics elicit certain types of environments.

- A) Active (niche-picking) genotype-environment
- B) Evocative genotype-environment
- C) Passive genotype-environment

D) Shared environmental

**94)** Because Jaedyn is a sociable, gregarious child,



she tends to be noticed by her teachers and peers. How does Jaedyn interact with her environment?

- A) actively
- B) passively
- C) evocatively
- D) prosocially

95) \_\_\_\_\_ correlations occur when children seek out environments that they find compatible and stimulating, which means finding a setting that is suited to one's abilities.

- A) Active (niche-picking) genotype-environment
- B) Evocative genotype-environment
- C) Passive genotype-environment
- D) Shared environmental

96) \_\_\_\_\_ are comprised of siblings' common experiences, such as their parents' personalities and intellectual orientation, the family's socioeconomic status,

and the neighborhood in which they live.

- A) Active (niche-picking) genotype-environments
- B) Evocative genotype-environments
- C) Nonshared environmental experiences
- D) Shared environmental experiences

97) Billy has nonshared environmental experiences. Which of the following experiences is nonshared?

- A) family vacation
- B) his sister's birthday party, which he attended
- C) being the only one awake during the night hours
- D) walking to school with siblings

98) Joey and Jakey live under the same roof with the same parents. It is likely that their personalities will be

- A) very similar.

- B) very different.  
C) unpredictable, based on the environment.  
D) identical.
- 99) The \_\_\_\_\_ view states that development is the result of an ongoing, bidirectional interchange between heredity and the environment.  
A) epigenetic  
B) heredity  
C) environment  
D) cooperative
- 100) A baby inherits genes from both parents at conception. During prenatal development, nutrition and stress can influence some genes to stop functioning while others become stronger or weaker. This is an example of \_\_\_\_\_.  
A) shared experience.  
B) nonshared experience.  
C) the eclectic view.  
D) the epigenetic view.
- 101) A person's intelligence, temperament, height, weight, ability to pitch a baseball, and ability to read are all examples of \_\_\_\_\_ working together.  
A) shared and nonshared experiences  
B) emergence and nonemergence  
C) heredity and environment  
D) genotype and phenotype
- 102) The interaction of a specific measured variation in DNA and a specific measured aspect of the environment is called \_\_\_\_\_.  
A) gene  $\times$  environment interaction.  
B) gene + environment interaction.  
C) gene formulation.  
D) environment

formulation.

**103)** The genotype labeled 5-HTTLPR involves a neurotransmitter called

- A) hormone.
- B) serotonin.

- C) gland.
- D) gene.

**104)** A short version of the genotype 5-HTTLPR may account for people experiencing

- A) more depression as it relates to stress.
- B) unresolved attachment with the loss of a parent in their childhood.
- C) both more depression as it relates to stress, and

unresolved attachment with the loss of a parent in their childhood.

- D) None of the answer choices are correct.

**105)** Charles Darwin's theory is that natural selection is the evolutionary process that favors individuals of a species that are best adapted to survive and reproduce. Explain this concept.

**106)** Albert Bandura, who is associated with social cognitive theory, rejects what he calls "one-sided evolutionism." He supports the bidirectional view. Explain,

by providing examples, the bidirectional view.

**107)** Identify the two areas that will have an effect on the activity of genes or genetic

**108)** Describe the processes of mitosis and meiosis.

**109)** There are four sex-linked chromosomal abnormalities listed in the text: Klinefelter syndrome, fragile X syndrome, Turner syndrome, and XYY syndrome. Describe two of these.

**110)** When a man and a woman have trouble conceiving a child, what possibilities in both the male and the female could be prohibiting conception?

**111)** Several changes have occurred during the past several decades of the twentieth century in the characteristics of both adopted children and adoptive parents. Explain some of these changes.

**112)** List several reasons why a behavioral geneticist would specialize in research that involves twins.

**113)** List five reasons siblings raised by the same parents in the same household will display differing personality characteristics.

## **Answer Key**

Test name: Chapter 02 Test Bank

1) D

2) A

3) D

4) D

5) B

6) C

7) C

8) D

9) B

10) B

11) D

12) B

13) C

14) D

15) D

16) C

17) C

18) A

19) C



20) A

21) B

22) B

23) C

24) C

25) D

26) A

27) B

28) B

29) D

30) D

31) B

32) A

33) B

34) B

35) B

36) C

37) A

38) B

39) C

40) A

41) D

42) D

43) D

44) B

45) C

46) B

47) A

48) D

49) A

50) B

51) C

52) C

53) A

54) B

55) C

56) D

57) A

58) B

59) A

60) B

61) D

62) C

63) A

64) B

65) D

66) C

67) D

68) D

69) D

70) B

71) C

72) D

73) A

74) C

75) D

76) C

77) D

78) D

79) D

80) A

81) C

82) C

83) D

84) C

85) D

86) C

87) B

88) C

89) C

90) A

91) C

92) C

93) B

94) C

95) A

96) D

97) C

98) B

99) A

100) D

101) C

102) A

103) B

104) A

105) Most organisms reproduce at rates that would cause enormous increases in the population of most species, yet populations remain nearly constant. Darwin reasoned that an intense constant struggle for food, water, and resources must occur among the many young born each generation, a struggle that many of the young do not survive. Those that do survive and reproduce pass on their

106) A mother feels that it is her responsibility to raise her baby to be a good child in society, and she manifests this concept in her parenting style; this represents the one-sided view of evolutionism. Bandura's social cognitive theory supports the bidirectional view: He would expect the child to direct his or her emotions and actions toward the mother, and

107) Environment, such as early developmental experiences, and the flow of hormones, such as cortisol (stress hormones)

108) Mitosis is the process by which each chromosome of the cell nucleus duplicates itself. Meiosis is the process by which a cell in the testes and ovaries duplicates its

109) Klinefelter syndrome is a chromosomal abnormality in which males have an extra X chromosome, making them XXY instead of

characteristics to the next generations.

Darwin believed that these survivors are better adapted to their world.

the mother to, in turn, respond to the child. Therefore, the baby would be socializing the mother to be a good parent.

chromosomes and then divides twice, forming four cells.

XY. Males with this disorder have undeveloped testes

and they usually have enlarged breasts and become unusually tall. Turner syndrome is a chromosomal abnormality in females in which either an X chromosome is missing, making the person XO instead of XX, or the second chromosome is partially deleted. These females are short in stature and have a webbed neck. They might be infertile and have difficulty in mathematics, but their verbal ability is often quite good. In XYY syndrome, a male child has an extra Y chromosome, which can cause above-average height. In

110) The cause of infertility can rest with the woman or the man. The woman may not be ovulating, she may be producing abnormal ova, her fallopian tubes may be blocked, or she may have a disease that prevents implantation of the embryo in the uterus. The man may produce too few sperm, the sperm

111) Prior to the 1960s, most U.S. adopted children were healthy, non-Latino White infants who were adopted at birth or soon after. Now more mothers are keeping their babies and there are fewer babies to adopt, due to contraception and legalized abortion. U.S. couples are increasingly adopting a much wider diversity of children—from other countries, from other ethnic groups, children with physical and/or mental problems, and

fragile X syndrome, which can occur in females but is more common in males, an abnormality in the X chromosome can cause intellectual disability, learning disabilities, or a short attention span.

may lack the ability to move adequately, or he may have a blocked passageway.

children who had been neglected or abused. Changes have occurred in adoptive parents as well. Adoptive parents of the past were primarily of middle- or upper-socioeconomic

status and were married and free of disabilities. Many current adoptive parents are single adults, older adults, and gay and lesbian adults. There are currently fewer restrictive

requirements of adoptive parents than there were in the past.

112) Students' answers will vary.

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