# TRUE/FALSE

|    | ANS:<br>REF:     |                  | PTS:       | 1<br>s on Developm              |           | Bloom's: Remextbook                        |            |                 |               |
|----|------------------|------------------|------------|---------------------------------|-----------|--|------------|-----------------|---------------|
|    | OBJ:             | LO1: Define      | chromos    | somes and gene                  | es        |  | MSC: T     | YPE: Easy       |               |
| 2. | The fi           | eld of biology   | that stuc  | lies heredity is                | called g  | genetics.                                  |            |                 |               |
|    |                  | 2.1 Genetic Ir   |            | s on Developm                   | ent, Te   | Bloom's: Remextbook                        | ember      |                 |               |
|    | OBJ:             | LO1: Define      | chromos    | somes and gene                  | es        |  | MSC: T     | YPE: Easy       |               |
| 3. | Each 1           | member of a pa   | air of ge  | nes is termed a                 | trait.    |  |            |                 |               |
|    |                  | 2.1 Genetic Ir   |            | s on Developm                   | ent, Te   | Bloom's: Rem<br>extbook<br>and provide ex- |            | f each          |               |
|    |                  | TYPE: Easy       |            |                                 | ,         | F  |            |                 |               |
| 4. | Factor           | rial problems st | tem fron   | n the interactio                | n of her  | redity and envir                           | conmenta   | l factors.      |               |
|    | ANS:             |                  | PTS:       |                                 |           | Bloom's: Unde                              | erstand    |                 |               |
|    |                  |                  |            | s on Developm<br>somal disorder |           | extbook                                    | MSC: T     | YPE: Easy       |               |
| 5. | Cystic           | fibrosis is cau  | sed by a   | dominant gen                    | e.        |  |            |                 |               |
|    |                  | 2.1 Genetic Ir   |            | 1<br>s on Developm<br>disorders | ent, Te   |  | ember      |                 |               |
| 6. | Genot<br>influer |                  | etual sets | of traits we ex                 | thibit th | at reflect both                            | genetic aı | nd environme    | ntal          |
|    | ANS:             |                  | PTS:       |                                 |           | Bloom's: Rem                               | ember      |                 |               |
|    |                  |                  |            | s on Developm<br>tween genotyp  |           |  | MSC: T     | YPE: Easy       |               |
| 7. | The M            | Iinnesota Study  | y of Twi   | ns Reared Apa                   | rt studi  | ed DZ twins rea                            | ared in se | parate housel   | nolds.        |
|    |                  | 2.1 Genetic Ir   |            | s on Developm                   | ent, Te   | Bloom's: Applextbook<br>n studies are us   |            | t out the effec | ets of nature |
|    | and nu           | _                |            | TYPE: Mediu                     | _         |  |            |                 |               |
| 8. | The er           | ndometrium is    | the inne   | r lining of the t               | uterus.   |  |            |                 |               |
|    | ANS:             | T                | PTS:       | 1                               | DIF:      | Bloom's: Rem                               | ember      |                 |               |
|    |                  |                  |            |                                 |           |  |            |                 |               |

1. A chromosome is a rod-shaped structure found within the nuclei of cells.

| 9.  | Endometriosis has become fairly common among women who delay childbearing.  |
|-----|---|
|     | ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook OBJ: LO13: Discuss infertility MSC: TYPE: Easy                                     |
| 10. | Endometriosis can obstruct the fallopian tubes, where conception normally takes place.  |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook MSC: TYPE: Easy  DIF: Bloom's: Remember OBJ: LO13: Discuss infertility             |
| 11. | Surrogate mothers bring babies to term through other women who are fertile.   |
|     | ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook OBJ: LO13: Discuss infertility MSC: TYPE: Easy                                     |
| 12. | Postimplantation genetic diagnosis was developed to detect genetic disorders, but it also reveals the sex of the embryo.  |
|     | ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook OBJ: LO14: Discuss preimplantation genetic diagnosis MSC: TYPE: Medium             |
| 13. | Growth of the organ systems near the spine occurs earlier than growth of the extremities.   |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook  |
|     | OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Easy  |
| 14. | At approximately 21 days after implantation, three ridges appear in the embryo and fold to compose the neural tube, from which the nervous system will develop. |
|     | ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook  |
|     | OBJ: LO15: Describe the stages of prenatal development. MSC: TYPE: Difficult  |
| 15. | The mother usually feels the first fetal movements in the middle of the fourth month.   |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook  |
|     | OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Medium  |
| 16. | The fetus will probably not contract syphilis if an infected mother is treated with antibiotics before the fourth month of pregnancy.                           |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember  |
|     | REF: 2.2 Prenatal Development, Textbook OBJ: LO16: Discuss nutrition in prenatal development MSC: TYPE: Easy  |

REF: 2.2 Prenatal Development, Textbook | Animation - The Female Reproductive Organs, Online OBJ: LO10: Describe the development and release of ova. MSC: TYPE: Easy

| 17. | Rh incompatibility occurs when a woman who does not have this factor - and is thus Rh positive - is carrying an Rh-negative fetus.  |
|-----|---|
|     | ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook OBJ: LO17: Explain what is meant by critical periods of vulnerability during prenatal development                    |
|     | MSC: TYPE: Difficult  |
| 18. | Vitamins have been shown to be completely safe for pregnant women to take.  |
|     | ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook  |
|     | OBJ: LO16: Discuss nutrition in prenatal development MSC: TYPE: Medium  |
| 19. | During transition, the cervix is nearly fully dilated, and the head of the fetus begins to move into the vagina.  |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember  |
|     | REF: 2.3 Childbirth, Textbook   Video - A Birth, Online OBJ: LO20: Describe events that indicate that a baby is ready to be born MSC: TYPE: Medium  |
| 20. | Cuban Americans have the lowest child mortality rate.   |
|     | ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook   Reading - Global Birthrates, Online OBJ: LO25: Discuss global differences in maternal and child mortality. MSC: TYPE: Medium |
| MUL | TIPLE CHOICE  |
| 1.  | According to Figure 2.1 in the text, which of the following is the smallest unit?  a. cell  c. nucleus  b. chromosome  d. DNA   |
|     | ANS: D PTS: 1 DIF: Bloom's: Understand  |
|     | REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO1: Define chromosomes and genes MSC: TYPE: Medium   |
| 2.  | Which of the following utilizes partnering to create a DNA strand?  |
|     | <ul><li>a. mitosis</li><li>b. meiosis</li><li>c. ovulation</li><li>d. reduction division</li></ul>  |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook   |
|     | OBJ: LO2: Describe mitosis and meiosis  MSC: TYPE: Medium   |
| 3.  | How can a genetic code be altered?  a. Through mitosis  c. Through mutation  b. Through meiosis  d. Through reduction division  |
|     | ANS: C PTS: 1 DIF: Bloom's: Understand  |
|     | REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO2: Describe mitosis and meiosis MSC: TYPE: Medium   |
|     |   |

| 4. | David and Sharon just had a baby boy. Sharon jokes that David arranged a boy on purpose. The doctor  |
|----|--|
|    | laughs, and then explains that which of the following is ultimately responsible for the baby boy's gender?   |
|    | <ul> <li>a. The 22nd pair of autosomes</li> <li>b. The 46 pairs of chromosomes</li> <li>c. The 23rd pair of chromosomes</li> <li>d. The 23 pairs of autosomes</li> </ul>   |
|    | ANS: C PTS: 1 DIF: Bloom's: Apply REF: 2.1 Genetic Influences on Development, Textbook   |
|    | OBJ: LO2: Describe mitosis and meiosis  MSC: TYPE: Medium  |
| 5. | Lisa is writing a research paper on twins and in the research process, finds out that which of the following women would be most likely to have twins?  a. A 25-year-old woman with twin cousins  b. A 40 year-old woman with a mother who was a twin  c. A 30-year-old woman with a father who was a twin  d. A 35-year-old woman thinking about taking fertility drugs |
|    | ANS: B PTS: 1 DIF: Bloom's: Apply REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO3: Differentiate between identical and fraternal twins MSC: TYPE: Medium   |
| 6. | <ul> <li>Kali and Kelly are identical twins. What caused this?</li> <li>a. A single zygote split into two.</li> <li>b. A single zygote was fertilized twice.</li> <li>c. Two separate zygotes were fertilized by the same sperm.</li> <li>d. Two separate zygotes were fertilized at two separate times within the same month.</li> </ul>                                |
|    | ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO3: Differentiate between identical and fraternal twins MSC: TYPE: Medium   |
| 7. | Which of the following would be an example of a dominant trait?  a. blonde hair  b. blue eyes  c. red hair  d. brown eyes  |
|    | ANS: D PTS: 1 DIF: Bloom's: Apply REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO4: Define dominant and recessive traits, and provide examples of each MSC: TYPE: Medium  |
| 8. | If one parent has brown eyes, and the child has a recessive allele for blue eyes from both parents, what is likely to happen?  a. The child will have brown eyes.  b. The child will have green eyes.  c. The child will have blue eyes.  d. The child will have either brown eyes or blue eyes.   |
|    | ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO4: Define dominant and recessive traits, and provide examples of each MSC: TYPE: Medium  |
| 9. | Which of the following is an example of a recessive trait?  a. Curly hair  c. Lactose tolerance  |

|     | ANS: D PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, T OBJ: LO4: Define dominant and recessive traits MSC: TYPE: Medium |   |
|-----|---|---|
| 10. |   | mewhere in the first 22 pairs of autosomes? Sex-linked syndrome Down syndrome |
|     | ANS: D PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, T OBJ: LO5: Discuss chromosomal disorders                          | Bloom's: Understand<br>extbook<br>MSC: TYPE: Medium                           |
|     | Obj. LO3. Discuss chromosomai disorders   | WISC. TTPE. Medium  |
| 11. | Which of the following causes Down's syndrome a. The 46 chromosomes c. b. An excess 21st chromosome d.                            | An excess 23rd chromosome   |
|     | REF: 2.1 Genetic Influences on Development, T   | Bloom's: Understand<br>extbook  |
|     | OBJ: LO5: Discuss chromosomal disorders   | MSC: TYPE: Medium   |
| 12. | Which of the following would be a disease that waa. Phenylketonuria c.b. Huntington's disease d.                                  | Sickle-cell anemia  |
|     | REF: 2.1 Genetic Influences on Development, T   | Bloom's: Apply<br>extbook<br>: TYPE: Medium                                   |
| 13. | Which of the following individuals is most likely   | to have sickle-cell anemia?   |
|     |   | A White child   |
|     |   | A Latin American adult  |
|     | ANS: B PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, T OBJ: LO6: Discuss genetic disorders MSC                          | Bloom's: Apply<br>extbook<br>: TYPE: Medium                                   |
| 14. | Which of the following would result in mental ret a. Phenylketonuria c.   | Sickle-cell anemia  |
|     | b. Huntington's disease d.  |   |
|     | ANS: A PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, T  | Bloom's: Apply<br>extbook   |
|     |   | : TYPE: Medium  |
| 15. | Which of the following genetic disorders results is adulthood?  | n respiratory complications and death in young                                |
|     | <ul><li>a. Tay-Sachs disease</li><li>b. Cystic fibrosis</li><li>c.</li><li>d.</li></ul>   | Muscular dystrophy<br>Hemophilia  |
|     | ANS: B PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, T OBJ: LO6: Discuss genetic disorders MSC                          | Bloom's: Apply<br>extbook<br>: TYPE: Medium                                   |
|     |   |   |

d. Lack of dimples

b. Type A blood

| 16. | Which of the following individuals has the greatest chance of contracting a sex-linked genetic abnormality?  a. A male with a mother with muscular dystrophy  b. A female with a mother with muscular dystrophy  c. A male with a father with muscular dystrophy  d. A female with a father with muscular dystrophy           |
|-----|---|
|     | ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO6: Discuss genetic disorders MSC: TYPE: Medium  |
| 17. | Which of the following would be a procedure that would be used on a pregnant woman over 40-years-old?   |
|     | <ul><li>a. genetic counseling</li><li>b. amniocentesis</li><li>c. sonogram</li><li>d. ultrasound</li></ul>  |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Medium   |
| 18. | Angela and Greg would like to know the gender of their baby, but they want to do so as safely as possible. Which of the following procedures would you recommend?  a. amniocentesis  c. ultrasound  b. CVS  d. genetic counseling   |
|     | ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook   Reading - Sex Selection, Online OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Medium  |
| 19. | Which of the following is used sparingly as it carries the greatest risk of miscarriage?  a. CVS  c. amniocentesis  b. ultrasound  d. early amniocentesis   |
|     | ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Medium   |
| 20. | Which of the following genetic diseases would not be revealed with a parental blood test before pregnancy?  a. Tay-Sachs disease  c. Cystic fibrosis  |
|     | b. Huntington's disease d. Sickle-cell anemia   |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO8: Differentiate between genotypes and phenotypes MSC: TYPE: Medium  |
| 21. | Pamela's father was a calm, quiet man. Pamela tends to be calm and quiet as well, unless she is playing soccer, her favorite sport. What does her aggressiveness on the field indicate?  a. The effects of her chromosomes c. The effects of her phenotypes b. The effects of her genotypes d. The effects of her environment |
|     | ANS: C PTS: 1 DIF: Bloom's: Evaluate REF: 2.1 Genetic Influences on Development, Textbook   |

|     | OBJ: LO8: Differentiate between genotypes and phenotypes MSC: TYPE: Difficult   |
|-----|---|
| 22. | Which of the following people would Ann be closest to genetically?  a. her grandmother  c. her aunt  b. her brother  d. her cousin  |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO8: Differentiate between genotypes and phenotypes MSC: TYPE: Medium  |
| 23. | Paul and Peter seem identical in almost every way. They have the same taste in music. They have the same facial expressions and features. They drive the same car, and they work in the same professional field. Since they did not grow up together, what explanation is there for this?  a. There is an environmental basis for their behaviors.  b. They are dizygotic twins.  c. They have a strong instinctive connection.  d. There is a strong genetic basis for their behaviors.  |
|     | ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO9: Explain how twin studies and adoption studies are used to sort out the effects of nature and nurture.  MSC: TYPE: Difficult  |
| 24. | Who of the following would be more likely to share autism?  a. male siblings  c. DZ twins  b. female siblings  d. MZ twins  |
|     | ANS: D PTS: 1 DIF: Bloom's: Apply REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO9: Explain how twin studies and adoption studies are used to sort out the effects of nature and nurture MSC: TYPE: Medium   |
| 25. | Nancy and Sarah were separated at birth and raised in separate households. They did not have contact with each other and were not aware that they were twins. Researchers studied them to see if there were any similarities in their behaviors and traits. What is this type of research called?  a. twin studies  c. kinship studies  b. trait studies  d. adoption studies   |
|     | ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO9: Explain how twin studies and adoption studies are used to sort out the effects of nature and nurture MSC: TYPE: Difficult  |
| 26. | <ul> <li>How do sperm reach the ovum?</li> <li>a. They travel randomly through the cervix and uterus to the fallopian tube with the released ovum.</li> <li>b. They follow the scent of released chemicals through the cervix to the fallopian tube containing a released ovum.</li> <li>c. They follow the scent of released chemicals through the fallopian tube to the cervix where the ovum has been released.</li> <li>d. They travel randomly through the fallopian tube to the cervix where the ovum has been released.</li> </ul> |
|     | ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.2 Prenatal Development, Textbook   |
|     |   |

| 27. | How many sperm cells are necessary to fertilize an ovum?  |
|-----|---|
|     | a. 1 c. 1,000   |
|     | b. 100 d. 1,000,000   |
|     | ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook OBJ: LO10: Describe the development and release of ova MSC: TYPE: Easy   |
| 28. | What concept describes the time in which the sperm penetrates the ovum and unites with it?  a. conception  c. endometrium  b. fertility  d. implantation  |
|     | ANS: A PTS: 1 DIF: Bloom's: Apply REF: 2.2 Prenatal Development, Textbook   Animation - Stages of Conception, Online OBJ: LO12: Define conception MSC: TYPE: Medium   |
| 29. | When are ova present in the female body? a. At birth c. During puberty b. In childhood before puberty d. During menstruation  |
|     | ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook   Animation - Stages of Conception, Online OBJ: LO10: Describe the development and release of ova MSC: TYPE: Medium  |
| 30. | What is released during menstruation?  a. The unfertilized egg and the lining of the fallopian tube  b. The unfertilized egg and the cilia  c. The unfertilized egg and the lining of the ovaries  d. The unfertilized egg and the lining of the uterus   |
|     | ANS: D PTS: 1 DIF: Bloom's: Apply REF: 2.2 Prenatal Development, Textbook   Animation - Stages of Conception, Online OBJ: LO10: Describe the development and release of ova MSC: TYPE: Medium   |
| 31. | <ul> <li>What is one explanation for why more boys than girls are conceived?</li> <li>a. The X sex chromosome swims faster than the Y sex chromosome.</li> <li>b. The Y sex chromosome swims faster than the X sex chromosome.</li> <li>c. There are more X sex chromosomes than Y sex chromosomes.</li> <li>d. There are more Y sex chromosomes than X sex chromosomes.</li> </ul>                                     |
|     | ANS: B PTS: 1 DIF: Bloom's: Apply REF: 2.2 Prenatal Development, Textbook OBJ: LO12: Define conception MSC: TYPE: Medium  |
| 32. | <ul> <li>How do sperm cells develop?</li> <li>a. Through meiosis, with the X sex chromosomes splitting from the Y sex chromosomes to form 23 chromosomes.</li> <li>b. Through meiosis, with the X sex chromosomes splitting from the Y sex chromosomes to form 23 pairs of chromosomes.</li> <li>c. Through mitosis, with the X sex chromosomes splitting from the Y sex chromosomes to form 23 chromosomes.</li> </ul> |
|     | <ul> <li>d. Through mitosis, with the X sex chromosomes splitting from the Y sex chromosomes to form 23 pairs of chromosomes.</li> </ul>  |

MSC: TYPE: Difficult

OBJ: LO10: Describe the development and release of ova

|     | OBJ: LO11: Describe the development and travels of sperm MSC: TYPE: Medium  |
|-----|---|
| 33. | <ul> <li>Which of the following is an obstacle sperm face in attempting to reach the ovum?</li> <li>a. Only a few viable sperm are ejaculated.</li> <li>b. Vaginal acidity kills many sperm.</li> <li>c. Most sperm travel randomly and do not go in the right direction.</li> <li>d. The cilia are designed to keep out foreign objects.</li> </ul>  |
|     | ANS: B PTS: 1 DIF: Bloom's: Analyze REF: 2.2 Prenatal Development, Textbook OBJ: LO11: Describe the development and travels of sperm MSC: TYPE: Difficult   |
| 34. | <ul> <li>Why does only one sperm enter the ova?</li> <li>a. A chemical is released to prevent others from entering.</li> <li>b. More than one sperm enter the ova but do not fertilize the egg.</li> <li>c. The ova only has room for one sperm.</li> <li>d. The chemical used to attract sperm ceases once one sperm enters the ova.</li> </ul>  |
|     | ANS: A PTS: 1 DIF: Bloom's: Analyze REF: 2.2 Prenatal Development, Textbook OBJ: LO11: Describe the development and travels of sperm MSC: TYPE: Difficult   |
| 35. | Adam and Maria have been trying to get pregnant for eight months. They are in your office and wonder when they will be able to go through infertility procedures. What do you advise?  a. Infertility is normally diagnosed after trying for six months.  b. Infertility is normally diagnosed after trying for eight months.  c. Infertility is normally diagnosed after trying for ten months.  d. Infertility is normally diagnosed after trying for twelve months.  |
|     | ANS: D PTS: 1 DIF: Bloom's: Analyze REF: 2.2 Prenatal Development, Textbook OBJ: LO12: Define conception MSC: TYPE: Difficult   |
| 36. | Which of the following would be one of the likeliest reasons for infertility in men?  a. diabetes  c. medication  b. sexually transmitted infection  d. low sperm count   |
|     | ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook OBJ: LO13: Discuss infertility MSC: TYPE: Medium   |
| 37. | Daniel and Sasha are very active and healthy. They eat right and exercise daily. Daniel often engages in long distance runs and then takes a hot bath before he and Sasha have sexual intercourse. When they visit a specialist about their inability to conceive, what is one issue that the physician will likely point out?  a. The warm water from the bath would help Sarah conceive.  b. Sarah is probably exercising too much.  c. David's runs could be causing issues with conception.  d. David needs to take a shower instead. |
|     | ANS: C PTS: 1 DIF: Bloom's: Analyze REF: 2.2 Prenatal Development, Textbook OBJ: LO13: Discuss infertility MSC: TYPE: Difficult   |
|     |   |

DIF: Bloom's: Analyze

ANS: A

PTS: 1

REF: 2.2 Prenatal Development, Textbook

| 38. | <ul> <li>What is one reason that fertility drugs can cause in a. The ovum splits during conception.</li> <li>b. Ovulation permits ovum to remain viable for a c. The ovum splits after conception.</li> <li>d. Ovulation occurs more than once, ripening median</li> </ul> | longer periods of time.                             |
|-----|--|---|
|     | ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook MSC: TYPE: Medium   | Bloom's: Apply OBJ: LO13: Discuss infertility       |
| 39. | Which of the following is a means of fertilizing the uterus?   |   |
|     | •  | in vitro fertilization donor in vitro fertilization |
|     | ANS: B PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook MSC: TYPE: Medium   | Bloom's: Understand OBJ: LO13: Discuss infertility  |
| 40. | What procedure is actually the mode that gave rise. a. in vitro fertilization c. b. surrogate mothers d.   | artificial insemination                             |
|     | ANS: A PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO14: Discuss preimplantation genetic dia  |   |
| 41. | What occurs when ova are produced by someone   | other than the intended mother?                     |
|     | <ul><li>a. in vitro fertilization</li><li>b. donor IVF</li><li>c.</li><li>d.</li></ul>   | E ,   |
|     | ANS: B PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook   | Bloom's: Apply                                      |
|     | OBJ: LO14: Discuss preimplantation genetic dia   | gnosis MSC: TYPE: Medium                            |
| 42. | Which of the following helps couples select the goa. in vitro fertilization c.b. donor IVF d.  |   |
|     | ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook   Rea OBJ: LO14: Discuss preimplantation genetic dia  | -   |
| 43. | How long is a normal gestation period? a. 260 days b. 270 days d.  | 280 days<br>290 days                                |
|     | ANS: C PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal development.   | Bloom's: Remember elopment MSC: TYPE: Easy          |
| 44. | Which stage occurs around the third through eight a. gestation stage c.  | •   |

|     |        | 2.2 Prenatal D                                    |                  | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Remopment                               |           | TYPE: Easy                 |
|-----|--------|---|------------------|--|----------------------|--|-----------|----------------------------|
| 45. | a. Th  | do cells begin<br>le embryonic d<br>le blastocyst | •                | rate into groups                       |                      | rill eventually b<br>The trophobla<br>The zygote |           | different structures?      |
|     |        | 2.2 Prenatal D                                    |                  | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Remopment                               |           | TYPE: Easy                 |
| 46. | a. To  | oes the blastoo<br>maintain warn<br>form the zygo | mth              | ant on the uter                        |                      | 11?<br>To create the<br>To provide no            |           |                            |
|     |        | 2.2 Prenatal D                                    |                  | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Undopment                               |           | TYPE: Medium               |
| 47. | a. ect | of the followi<br>toderm<br>ural tube             | ng forms         | s the digestive                        | and res<br>c.<br>d.  |  | ns in the | e embryonic stage?         |
|     |        | 2.2 Prenatal D                                    |                  | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Undo                                    |           | TYPE: Difficult            |
| 48. | a. ect | of the followi<br>toderm<br>doderm                | ng devel         | ops into the re                        | product<br>c.<br>d.  |  |           |                            |
|     |        | 2.2 Prenatal D                                    |                  | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Undopment                               |           | TYPE: Medium               |
| 49. | a. on  | at point in deve<br>e month<br>o months           | elopmen          | t will an embry                        | o begin<br>c.<br>d.  | n to "look" like<br>three months<br>four months  | an infa   | nt?                        |
|     |        | 2.2 Prenatal D                                    | <b>D</b> evelopn | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: Undo                                    |           | TYPE: Difficult            |
| 50. | a. on  | at point in emb<br>e month<br>o months            | oryonic d        | evelopment w                           | ould a s<br>c.<br>d. |  | able to   | tell the sex of an infant? |
|     |        | 2.2 Prenatal D                                    | <b>D</b> evelopn | 1<br>nent, Textbook<br>ages of prenata |                      | Bloom's: App                                     |           | TYPE: Medium               |
| 51. | a. am  | of the followi<br>nniotic sac<br>nniotic fluid    | ng acts a        | s a filter for fo                      | c.                   | oxygen for the placenta uterus                   | fetus?    |                            |

|     | ANS: C PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal devel  | Bloom's: Remember opment MSC: TYPE: Medium   |
|-----|--|--|
| 52. | How is alcohol able to affect the fetus?  a. The mother and fetus share circulatory systems  b. The mother transmits what she ingests through  c. The mother and fetus share digestive systems.  d. The mother transmits what she ingests through  | the uterine wall.  |
|     | ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal devel  | Bloom's: Analyze opment MSC: TYPE: Difficult   |
| 53. | Which of the following normally occurs by the end a. thumb sucking c. b. gender identity d.  |  |
|     | ANS: B PTS: 1 DIF: REF: 2.2: Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal devel   | Bloom's: Remember opment MSC: TYPE: Easy   |
| 54. | b. Chances of survival are nearly 70%. d.  ANS: D PTS: 1 DIF:  |  |
|     | REF: 2.2 Prenatal Development, Textbook<br>OBJ: LO15: Describe the stages of prenatal devel  | opment MSC: TYPE: Difficult  |
| 55. | Kali swears her baby can hear her voice and responsive from a study by Sontag and Richards. What is the ea. Infants kicking while the mother is listening to b. Infants moving at the sound of a bell c. Infants calming down to the music mom likes d. Infants coming out of the womb with an affinit | evidence she is citing?<br>music   |
|     | ANS: B PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal devel  | Bloom's: Apply opment MSC: TYPE: Difficult   |
| 56. | According to researchers, what is one reason that fe a. The fetus looks toward the sound. c. b. The fetus wakes up. d.   | etuses can discriminate pitch?  The fetus has a change in heart rate.  The fetus assumes a listening stance. |
|     | ANS: C PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal devel  | Bloom's: Understand opment MSC: TYPE: Easy   |
| 57. | Yolanda is in her ninth month of pregnancy and is around quite as much as before. What advice would a. The space is more cramped, so activity is reduced. The fetus is sleeping more.  | d you give her?  |

|            | <ul><li>c. The fetus is getting ready to enter the birth canal.</li><li>d. The fetus is potentially in trouble and emergency measures should be taken.</li></ul>   |  |  |
|------------|--|--|--|
|            | ANS: A PTS: 1 DIF: Bloom's: Apply REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Medium   |  |  |
| <b>-</b> 0 |  |  |  |
| 58.        | Which of the following is defined as any environmental agent that can harm the embryo or fetus?  a. syphilis  b. teratogen  c. rubella d. deficiency   |  |  |
|            | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and fetus MSC: TYPE: Difficult   |  |  |
| 59.        | At which point is the heart past the vulnerable point of developing an abnormality from a teratogen?  a. six weeks  b. seven weeks  c. eight weeks  d. nine weeks  |  |  |
|            | ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook OBJ: LO17: Explain what it meant by critical periods of vulnerability during prenatal development MSC: TYPE: Medium             |  |  |
| 50.        | When do eyes develop beyond the critical period for major abnormal development from teratogens?  a. seven weeks  b. eight weeks  d. ten weeks  |  |  |
|            | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook OBJ: LO17: Explain what is meant by critical periods of vulnerability during prenatal development MSC: TYPE: Medium             |  |  |
| 51.        | Which of the following refers to a condition that is present at birth and results from genetic or chromosomal abnormalities?   |  |  |
|            | <ul><li>a. congenital</li><li>b. phenotypical</li><li>c. teratogenic</li><li>d. dysfunctional</li></ul>  |  |  |
|            | ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Easy  |  |  |
| 52.        | Which of the following is most known to cripple the body's immune system? a. syphilis b. HIV/AIDS c. rubella d. toxemia  |  |  |
|            | ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.2 Prenatal Development, Textbook   Reading - Preventing HIV in the Unborn, Online OBJ: LO18: Discuss environmental risks to the embryo and fetus MSC: TYPE: Medium |  |  |
| 53.        | Which of the following is a life-threatening disease, characterized by high blood pressure?  a. rubella  c. syphilis  b. toxemia  d. HIV/AIDS  |  |  |

|     | ANS: B PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Easy  | ook                   | Bloom's: Remember mbryo and fetus        |
|-----|--|-----------------------|--|
| 64. | When does Rh incompatibility happen?  a. When the mother is Rh negative and b. When the mother is Rh positive and c. When the mother is Rh negative and d. When the mother is Rh positive and d. | carries an carries an | Rh negative fetus.<br>Rh positive fetus. |
|     | ANS: C PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Difficult   |                       | Bloom's: Apply mbryo and fetus           |
| 65. | What unsafe substance was prescribed in a. progestin b. diethylstilbestrol   | c.                    |  |
|     | ANS: B PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Medium  | ook                   | Bloom's: Understand mbryo and fetus      |
| 66. | What substance has been linked to toxem a. cocaine b. marijuana  |                       | heroin<br>alcohol                        |
|     | ANS: C PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Medium  | ook                   | Bloom's: Understand mbryo and fetus      |
| 67. | Which of the following causes FAS? a. alcohol  | C                     | cocaine                                  |
|     | b. caffeine  |                       | heroin                                   |
|     | ANS: A PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Medium  |                       | Bloom's: Understand mbryo and fetus      |
| 68. | Which of the following most decreases that a. cocaine  | ne flow of c.         | ,  |
|     | b. marijuana   | d.                    | cigarettes                               |
|     | ANS: D PTS: 1 REF: 2.2 Prenatal Development, Textbo OBJ: LO18: Discuss environmental risk MSC: TYPE: Medium  |                       | Bloom's: Understand mbryo and fetus      |
| 69. | What describes the most accurate relation a. The younger the female is, the better b. The older the female is, the better  | _                     | veen parental age and conception?        |

|     | ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO19: Discuss the risks associated with the MSC: TYPE: Difficult  | Bloom's: Apply se age of the parents to the embryo and fetus  |
|-----|---|---|
| 70. | Which of the following is an increased risk for cha. premature baby cb. autism d  | . FAS   |
|     | ANS: B PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO19: Discuss the risks associated with the MSC: TYPE: Easy   | Bloom's: Understand se age of the parents to the embryo and fetus                                       |
| 71. | born in Italy? a. Four times more likely c  | will die during the first year as compared to a child  . Six times more likely  . Six times less likely |
|     | ANS: C PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Reading - Glob OBJ: LO25: Discuss global differences in mater MSC: TYPE: Medium  |   |
| 72. | <ul><li>What is most likely indicated by a mucus dischar</li><li>a. The plug protecting the cervix has dislodged.</li><li>b. The amniotic sac has burst.</li><li>c. The end of the first stage of childbirth.</li><li>d. Prostaglandins are being released.</li></ul> | ge in the last month of pregnancy?  |
|     | ANS: A PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO20: Describe the events that indicate the MSC: TYPE: Difficult  | Bloom's: Apply at a baby is ready to be born  |
| 73. | Which of the following is used to widen the vagin a. transition c b. episiotomy d   | . C-section   |
|     | ANS: B PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO20: Describe events that indicate that a MSC: TYPE: Easy  |   |
| 74. | <ul><li>What is the primary event during transition?</li><li>a. Contractions begin.</li><li>b. The cervix begins to dilate.</li><li>c. The baby's head crowns.</li><li>d. The baby's head begins to move into the vaging</li></ul>                                    | na.   |
|     | ANS: D PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Video - A Birth OBJ: LO20: Describe events that indicate that a  | , Online  |

c. It does not matter what age the male is.d. Both older males and females present problems.

MSC: TYPE: Difficult

| 75. | Which of the following has the most bearing on whether or not an episiotomy is performed?  a. The size of the infant's shoulders  b. The weight of the infant  c. The condition of the mother  d. The physician's normal practice      |
|-----|--|
|     | ANS: D PTS: 1 DIF: Bloom's: Apply REF: 2.3 Childbirth, Textbook   Reading - Birthing Options, Online OBJ: LO21: Describe the three stages of childbirth MSC: TYPE: Medium  |
| 76. | Which of the following would be used to numb a mother's external genitals?  a. A general anesthetic pudendal block  b. A local anesthetic pudendal block  c. A general anesthetic epidural block  d. A local anesthetic epidural block |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.3 Childbirth, Textbook   Reading - Birthing Options, Online OBJ: LO22: Discuss methods of childbirth MSC: TYPE: Difficult  |
| 77. | Which form of childbirth most utilizes a coach? a. anesthesia c. Lamaze b. natural d. cesarean   |
|     | ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook   Reading - Birthing Options, Online OBJ: LO22: Discuss methods of childbirth MSC: TYPE: Easy   |
| 78. | What is the rate of C-section births in the United States?  a. Three in every 10  b. Four in every 10  d. Six in every 10  |
|     | ANS: A PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook   Reading - Birthing Options, Online OBJ: LO22: Discuss methods of childbirth MSC: TYPE: Medium   |
| 79. | At what point is a baby no longer considered preterm?  a. 36 weeks  b. 37 weeks  c. 38 weeks  d. 39 weeks  |
|     | ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.3 Childbirth, Textbook OBJ: LO24: Discuss the problems of preterm and low-birth-weight infants MSC: TYPE: Medium   |
| 80. | When a baby does not receive enough oxygen in utero to develop properly, the resulting condition is called   |
|     | a. lanugo c. breech<br>b. hypoxia d. aphasia   |
|     | ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook OBJ: LO23: Discuss oxygen deprivation during childbirth MSC: TYPE: Easy   |
| 81. | Which of the following is considered a normal birth weight?  a. three pounds  b. four pounds  d. six pounds  |

|     | OBJ: LO24: Discuss the problems of preterm and low-birth-weight infants MSC: TYPE: Easy  |
|-----|--|
| 82. | What is the term for the fine hair associated with preterm birth?  a. vernix  c. neonate b. lanugo  d. anoxia  |
|     | ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook OBJ: LO24: Discuss the problems of preterm and low-birth-weight infants MSC: TYPE: Easy   |
| 83. | Which country is the safest place to give birth? a. United States b. England c. Ireland d. Spain   |
|     | ANS: C PTS: 1 DIF: Bloom's: Remember REF: 2.3 Childbirth, Textbook   Reading - Global Birthrates, Online OBJ: LO25: Discuss global differences in maternal and child mortality MSC: TYPE: Medium   |
| 84. | Which of the following increases the maternal mortality rate in the United States? a. large urban populations b. large rural populations c. large immigrant populations d. large older populations   |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.3 Childbirth, Textbook   Reading - Maternal and Infant Mortality, Online OBJ: LO25: Discuss global differences in maternal and child mortality MSC: TYPE: Difficult                                |
| 85. | Why is an ultrasound used in high risk pregnancies?  a. To check for gender c. To check for height and weight b. To check for abnormalities d. To check for age  |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook   Video - Prenatal Doctor's Visit, Online OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Medium    |
| 86. | What information does the ultrasound provide in a high-risk pregnancy?  a. Diagnosis of chromosomal abnormalities  b. Diagnosis of Down Syndrome  c. Estimated need for additional screening  d. The extent of abnormalities                     |
|     | ANS: C PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook   Video - Prenatal Doctor's Visit, Online OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Difficult |
| 87. | Which of the following can be determined from the ultrasound?  a. FAS  c. Huntington's disease b. height  d. paternity   |

DIF: Bloom's: Remember

ANS: D

PTS: 1

REF: 2.3 Childbirth, Textbook

|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook   Video - Prenatal Doctor's Visit, Online OBJ: LO7: Describe prenatal testing methods for chromosomal and genetic abnormalities MSC: TYPE: Medium   |
|-----|---|
| 88. | <ul> <li>According to Hur, 2005; Johnson et al., 2004; McCrae et al., 2000, which of the following is true?</li> <li>a. MZ twins resemble one another more strongly than DZ twins in intelligence and personality traits.</li> <li>b. MZ twins resemble one another less strongly than DZ twins in intelligence and personality traits.</li> <li>c. DZ twins are more likely to share psychological disorders than MZ twins.</li> <li>d. DZ twins are more likely to be similar in height.</li> </ul> |
|     | ANS: A PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO9 Explain how twin studies and adoption studies are used to sort out the effects of nature and nurture MSC: TYPE: Medium   |
| 89. | Which of the following is NOT one of the components of DNA?  a. phosphates  |
|     | ANS: B PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook   Animation - The Double Helix of DNA, Online OBJ: LO1: Define chromosomes and genes MSC: TYPE: Medium  |
| 90. | <ul> <li>What did Bouchard find in his study?</li> <li>a. Identical twins varied greatly in behaviors.</li> <li>b. Identical twins varied greatly in personality traits.</li> <li>c. The twins were identical in behaviors.</li> <li>d. The twins were very similar in personality traits.</li> </ul>   |
|     | ANS: D PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO9: Explain how twin studies and adoption studies are used to sort out the effects of nature and nurture MSC: TYPE: Medium  |
| 91. | According to your online video resources, which of the following is a common reason for infertility?  a. genetic abnormalities  c. low sperm count  b. stress  d. irregular ovulation   |
|     | ANS: B PTS: 1 DIF: Bloom's: Understand REF: 2.2 Prenatal Development, Textbook   Video - Stress and Pregnancy, Online OBJ: LO13: Discuss infertility MSC: TYPE: Medium  |
| 92. | Which part of the brain was implicated in infertility by Dr. Berga due to stress? a. amygdala b. basal ganglia c. hypothalamus d. frontal cortex  |
|     | ANS: C PTS: 1 DIF: Bloom's: Apply REF: 2.2 Prenatal Development, Textbook   Video - Stress and Pregnancy, Online OBJ: LO13: Discuss infertility MSC: TYPE: Difficult  |
| 93. | According to Signorello & McLaughlin, 2004, research findings on caffeine's effects on the developing fetus   |

- a. show that caffeine consumption is harmful in the first trimester
- b. have been inconsistent
- c. show that caffeine consumption has no adverse effects on the fetus
- d. illustrate the benefits of caffeine for both mother and fetus

ANS: B PTS: 1 DIF: Bloom's: Understand

REF: 2.2 Prenatal Development, Textbook | Reading - Should Pregnant Women Avoid Caffeine?,

Online OBJ: LO18: Discuss environmental risks to the embryo and fetus

MSC: TYPE: Medium

b. good nutrition

94. According to Krueger et al., 2004; Lecanuet et al., 2005, what is one basis for the development of attachment to the mother in the womb?

a. fetal learning

c. socioeconomic status

d. stable family environment

ANS: A PTS: 1 DIF: Bloom's: Understand

REF: 2.2 Prenatal Development, Textbook | Reading - Fetal Perception, Online

OBJ: LO10: Discuss the stages of prenatal development MSC: TYPE: Difficult

## **SHORT ANSWER**

1. What is the cause of Turner syndrome and what are two characteristics of the syndrome?

#### ANS:

Turner syndrome occurs when a female has only one X sex chromosome. The ovaries are poorly developed and they produce little estrogen.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.1 Genetic Influences on Development, Textbook

OBJ: LO5: Discuss chromosomal disorders MSC: TYPE: Medium

2. Describe Huntington's Disease and identify three symptoms.

#### ANS:

Huntington's disease is a fatal, progressive degenerative disorder and a dominant trait, affecting approximately 1 in 18,000 Americans. Symptoms include uncontrollable muscle movements, loss of intellectual function, and personality change.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.1 Genetic Influences on Development, Textbook

OBJ: LO6: Discuss genetic disorders MSC: TYPE: Medium

3. Describe an ultrasound and its functionality.

### ANS:

An ultrasound is a testing procedure that uses sound waves that are too high in frequency to be heard by the human ear to obtain information about the fetus. The ultrasound creates a picture of the fetus and track the fetus' growth.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.1 Genetic Influences on Development, Textbook

OBJ: LO6: Discuss genetic disorders MSC: TYPE: Medium

4. Differentiate between twin studies and adoption studies.

|                  | <b>N</b> 1 | 1  |   |
|------------------|------------|----|---|
| Δ                |            |    | ٠ |
| $\boldsymbol{-}$ | 1.1        | ., |   |

Twin studies looked at MZ twins separated at birth and raised in different homes. Adoption studies looked at children separated at an early age and reared by adoptive parents.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.1 Genetic Influences on Development, Textbook

OBJ: LO9: Explain how twin studies and adoption studies are used to sort out the effects of nature

and nurture MSC: TYPE: Difficult

5. How do fertility drugs act to create multiple births?

## ANS:

Fertility drugs consist of hormones that cause women to ovulate. This could stimulate more than one ovum to ripen during a month.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.2 Prenatal Development, Textbook OBJ: LO13: Discuss infertility

MSC: TYPE: Medium

6. List the three periods of prenatal development and provide the ages related to each.

## ANS:

Germinal stage - approximately the first two weeks

Embryonic stage - third through eighth weeks

Fetal stage - third month through birth

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.2 Prenatal Development, Textbook

OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Medium

7. What is the ectoderm and why is it important?

## ANS:

During the embryonic stage, the outer layer of cells of the embryonic disk, or ectoderm, develops into the nervous system, sensory organs, nails, hair, teeth, and outer layer of skin.

PTS: 1 DIF: Bloom's: Evaluate

REF: 2.2 Prenatal Development, Textbook

OBJ: LO15: Describe the stages of prenatal development MSC: TYPE: Difficult

8. Define teratogens and give two examples.

#### ANS

Teratogens are environmental agents that can harm the embryo or fetus. Two examples are marijuana and alcohol.

PTS: 1 DIF: Bloom's: Analyze

REF: 2.2 Prenatal Development, Textbook

OBJ: LO15: Describe the stages of prenatal development. MSC: TYPE: Difficult

9. Why do some physicians do an episiotomy?

ANS:

The purpose of an episiotomy is to prevent random tearing when the area between the birth canal and the anus becomes severely stretched.

PTS: 1 DIF: Bloom's: Apply REF: 2.3 Childbirth, Textbook

OBJ: LO21: Describe the three stages of childbirth MSC: TYPE: Medium

10. Name three reasons the maternal mortality rate in the United States is higher than it should be.

# ANS:

States with above-average poverty rates, large rural populations, and below-average levels of education result in higher maternal mortality rates.

PTS: 1 DIF: Bloom's: Apply REF: 2.3 Childbirth, Textbook

OBJ: LO25: Discuss global differences in maternal and child mortality

MSC: TYPE: Medium