# https://selldocx.com/products Chapter 2/tBeginankgdiscovery-series-introduction-to-lifespan-1e-rathus

# TRUE/FALSE

1.	A chromosome is a rod-shaped structure found within the nuclei of cells.
	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO1: Define chromosomes and genes MSC: TYPE: Easy
2.	The field of biology that studies heredity is called genetics.
	ANS: T PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO1: Define chromosomes and genes MSC: TYPE: Easy
3.	Each member of a pair of genes is termed a trait.
	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO4: Define dominant and recessive traits, and provide examples of each MSC: TYPE: Easy
4.	Factorial problems stem from the interaction of heredity and environmental factors.
	ANS: F PTS: 1 DIF: Bloom's: Understand REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO5: Discuss chromosomal disorders MSC: TYPE: Easy
5.	Cystic fibrosis is caused by a dominant gene.
	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO6: Discuss genetic disorders MSC: TYPE: Easy
6.	Genotypes are the actual sets of traits we exhibit that reflect both genetic and environmental influences.
	ANS: F PTS: 1 DIF: Bloom's: Remember REF: 2.1 Genetic Influences on Development, Textbook OBJ: LO8: Differentiate between genotypes and phenotypes MSC: TYPE: Easy
7.	The Minnesota Study of Twins Reared Apart studied DZ twins reared in separate households.
	ANS: F 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
8.	The endometrium is the inner lining of the uterus.
	ANS: T PTS: 1 DIF: Bloom's: Remember

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 OBJ: LO13: Discuss infertility MSC: TYPE: Easy
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?  a. mitosis  b. meiosis  c. ovulation d. reduction division
	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  b. Through meiosis  c. Through mutation  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

	b. Type A blood	d.	Lack of dimples
	ANS: D PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO4: Define dominant and recessive MSC: TYPE: Medium	nent, Tex	
10.	Which of the following reflects an abnorma a. Klinefelter syndrome b. Turner syndrome	c.	newhere in the first 22 pairs of autosomes? Sex-linked syndrome Down syndrome
	ANS: D PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO5: Discuss chromosomal disorder	nent, Tex	Bloom's: Understand ktbook MSC: TYPE: Medium
11.	Which of the following causes Down's synda. The 46 chromosomes b. An excess 21st chromosome		An excess 23rd chromosome The 23rd chromosome
	ANS: B PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO5: Discuss chromosomal disorder	nent, Tex	Bloom's: Understand ktbook MSC: TYPE: Medium
12.	Which of the following would be a disease a. Phenylketonuria b. Huntington's disease	c.	
	ANS: B PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO6: Discuss genetic disorders		
13.	Which of the following individuals is most a. A Jewish child b. An African American adult	c.	have sickle-cell anemia? A White child A Latin American adult
	ANS: B PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO6: Discuss genetic disorders	nent, Tex	Bloom's: Apply ktbook TYPE: Medium
14.	Which of the following would result in mer a. Phenylketonuria b. Huntington's disease	ntal retar c. d.	
	ANS: A PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO6: Discuss genetic disorders	nent, Tex	Bloom's: Apply ktbook TYPE: Medium
15.	adulthood?		respiratory complications and death in young
	<ul><li>a. Tay-Sachs disease</li><li>b. Cystic fibrosis</li></ul>	c. d.	Muscular dystrophy Hemophilia
	ANS: B PTS: 1 REF: 2.1 Genetic Influences on Developm OBJ: LO6: Discuss genetic disorders	nent, Tex	Bloom's: Apply ktbook TYPE: Medium

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  b. The effects of her genotypes  c. The effects of her phenotypes  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>

27.	How many sperm cells are necessary to fertilize an ovum?  a. 1
	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  b. In childhood before puberty  c. During 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> <li>d. Through mitosis, with the X sex chromosomes splitting from the Y sex chromosomes to</li> </ul>
	form 23 pairs of chromosomes.

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 the 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

PTS: 1

REF: 2.2 Prenatal Development, Textbook

ANS: A

38.	<ul> <li>What is one reason that fertility drugs can cause multiple births?</li> <li>a. The ovum splits during conception.</li> <li>b. Ovulation permits ovum to remain viable for longer periods of time.</li> <li>c. The ovum splits after conception.</li> <li>d. Ovulation occurs more than once, ripening more than one ovum.</li> </ul>			
	ANS: D PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook MSC: TYPE: Medium	OBJ: LO13: Discuss infertility		
39.	uterus?			
	•	o fertilization in vitro fertilization		
	ANS: B PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook MSC: TYPE: Medium	oBJ: LO13: Discuss infertility		
40.	0. What procedure is actually the mode that gave rise to the parameters are in vitro fertilization and an adoption b. surrogate mothers d. adoption d.	ial insemination		
	ANS: A PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook OBJ: LO14: Discuss preimplantation genetic diagnosis	's: Understand  MSC: TYPE: Medium		
41.	<ol> <li>What occurs when ova are produced by someone other that</li> <li>a. in vitro fertilization</li> <li>b. donor IVF</li> <li>c. surrog</li> <li>d. artifice</li> </ol>			
	ANS: B PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook OBJ: LO14: Discuss preimplantation genetic diagnosis			
42.	<ol> <li>Which of the following helps couples select the gender of         <ul> <li>in vitro fertilization</li> <li>donor IVF</li> <li>description</li> </ul> </li> </ol>			
	ANS: D PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook   Reading - Se OBJ: LO14: Discuss preimplantation genetic diagnosis	ex Selection, Online MSC: TYPE: Easy		
43.	3. How long is a normal gestation period? a. 260 days b. 270 days c. 280 days d. 290 days			
	ANS: C PTS: 1 DIF: Bloom REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal development	t MSC: TYPE: Easy		
44.	8	vonic stage		

	ANS: REF:		PTS: Developr	1 nent, Textbook		Bloom's: Rem	ember	
	OBJ:	LO15: Descr	ibe the st	tages of prenata	al devel	opment	MSC:	TYPE: Easy
45.	a. Tl	e do cells begin ne embryonic ne blastocyst		rate into group		rill eventually b The trophobla The zygote		different structures?
		2.2 Prenatal 1		1 ment, Textbook tages of prenate		Bloom's: Rem		TYPE: Easy
46.	Why o		cyst imp mth	lant on the uter		II? To create the	neural t	ube
		2.2 Prenatal 1		1 ment, Textbook tages of prenata		Bloom's: Und		TYPE: Medium
47.	a. ec	n of the follow toderm cural tube	ing form	s the digestive	c.		ns in the	e embryonic stage?
		2.2 Prenatal l		1 ment, Textbook tages of prenata		Bloom's: Und		TYPE: Difficult
48.	a. ec	n of the follow toderm idoderm	ing deve	lops into the re	c.	tive system? neural tube mesoderm		
		2.2 Prenatal 1	Develop	1 ment, Textbook tages of prenate		Bloom's: Und		TYPE: Medium
49.	a. or	at point in devote month	elopmen	it will an embr	c.	n to "look" like three months four months	an infa	nt?
		2.2 Prenatal 1	Developr	1 ment, Textbook tages of prenate		Bloom's: Und		TYPE: Difficult
50.	a. or	at point in emine month	bryonic o	levelopment w	c.	sonographer be three months four months	able to	tell the sex of an infant?
		2.2 Prenatal 1	Develop	1 ment, Textbook tages of prenata		Bloom's: App		TYPE: Medium
51.	a. an	n of the follow nniotic sac nniotic fluid	ing acts a	as a filter for fo		oxygen for the placenta uterus	e fetus?	

	ANS: C PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal deve	Bloom's: Remember  lopment 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	s. the uterine wall.
	ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal deve	Bloom's: Analyze lopment 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 deve	Bloom's: Remember lopment MSC: TYPE: Easy
54.	•	
	ANS: D PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal development.	Bloom's: Apply lopment MSC: TYPE: Difficult
55.	Kali swears her baby can hear her voice and responsive from a study by Sontag and Richards. What is the a. 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 affinition	evidence she is citing?  music
	ANS: B PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal deve	Bloom's: Apply lopment MSC: TYPE: Difficult
56.	According to researchers, what is one reason that fa. The fetus looks toward the sound. c. b. The fetus wakes up. d.	
	ANS: C PTS: 1 DIF: REF: 2.2 Prenatal Development, Textbook OBJ: LO15: Describe the stages of prenatal deve	
57.	Yolanda is in her ninth month of pregnancy and is around quite as much as before. What advice woul a. The space is more cramped, so activity is redub. 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		
58.			
	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		
60.	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		
61.	Which of the following refers to a condition that is present at birth and results from genetic or chromosomal abnormalities?  a. congenital  b. phenotypical  c. teratogenic  d. dysfunctional		
	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		
62.	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		
63.	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 DIF: Bloom's: REF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Easy	
54.	64. When does Rh incompatibility happen?  a. When the mother is Rh negative and carries an Rh negative b. When the mother is Rh positive and carries an Rh negative c. When the mother is Rh negative and carries an Rh positive d. When the mother is Rh positive and carries an Rh positive	e fetus. e fetus.
	ANS: C PTS: 1 DIF: Bloom's: A REF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Difficult	
65.	<ul> <li>What unsafe substance was prescribed in the mid-1900s to hele</li> <li>a. progestin</li> <li>b. diethylstilbestrol</li> <li>c. thalidomic</li> <li>d. aspirin</li> </ul>	
	ANS: B PTS: 1 DIF: Bloom's: UREF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Medium	
56.	66. What substance has been linked to toxemia? a. cocaine b. marijuana c. heroin d. alcohol	
	ANS: C PTS: 1 DIF: Bloom's: UREF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Medium	
57.	67. Which of the following causes FAS?  a. alcohol  b. caffeine  c. cocaine d. heroin	
	ANS: A PTS: 1 DIF: Bloom's: UREF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Medium	Jnderstand fetus
58.	68. Which of the following most decreases the flow of oxygen to a. cocaine c. alcohol b. marijuana d. cigarettes	the fetus?
	ANS: D PTS: 1 DIF: Bloom's: UREF: 2.2 Prenatal Development, Textbook OBJ: LO18: Discuss environmental risks to the embryo and MSC: TYPE: Medium	Jnderstand fetus
59.	<ul><li>69. What describes the most accurate relationship between parents</li><li>a. The younger the female is, the better</li><li>b. The older the female is, the better</li></ul>	al 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 age of the parents to the embryo and fetus
70.	1	ldren born to men over 40? FAS physical deformities
	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 age of the parents to the embryo and fetus
71.	· · · · · · · · · · · · · · · · · · ·	Six times more likely
	b. Four times less likely d.  ANS: C PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Reading - Global OBJ: LO25: Discuss global differences in matern MSC: TYPE: Medium	Bloom's: Remember Birthdates, Online
72.	<ul><li>What is most likely indicated by a mucus discharg</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>	e in the last month of pregnancy?
	ANS: A PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO20: Describe the events that indicate tha MSC: TYPE: Difficult	Bloom's: Apply t a baby is ready to be born
73.	Which of the following is used to widen the vagina a. transition c. b. episiotomy d.	
	ANS: B PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO20: Describe events that indicate that a base. MSC: TYPE: Easy	Bloom's: Understand paby is ready to be born.
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 vagin</li></ul>	a.
	ANS: D PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Video - A Birth, OBJ: LO20: Describe events that indicate that a base of the control of th	

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  c. Five 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 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

	ANS: D PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO24: Discuss the problems of preterm and MSC: TYPE: Easy	Bloom's: Remember  I low-birth-weight infants
82.	What is the term for the fine hair associated with p a. vernix c. b. lanugo d.	neonate
	ANS: B PTS: 1 DIF: REF: 2.3 Childbirth, Textbook OBJ: LO24: Discuss the problems of preterm and MSC: TYPE: Easy	Bloom's: Remember  I low-birth-weight infants
83.		Ireland Spain
	ANS: C PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Reading - Global OBJ: LO25: Discuss global differences in matern MSC: TYPE: Medium	
84.		tality rate in the United States? large immigrant populations large older populations
	ANS: B PTS: 1 DIF: REF: 2.3 Childbirth, Textbook   Reading - Mate OBJ: LO25: Discuss global differences in matern MSC: TYPE: Difficult	
85.		To check for height and weight To check for age
	ANS: B PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, Te OBJ: LO7: Describe prenatal testing methods for MSC: TYPE: Medium	xtbook   Video - Prenatal Doctor's Visit, Online
86.	<ul> <li>What information does the ultrasound provide in a</li> <li>a. Diagnosis of chromosomal abnormalities</li> <li>b. Diagnosis of Down Syndrome</li> <li>c. Estimated need for additional screening</li> <li>d. The extent of abnormalities</li> </ul>	high-risk pregnancy?
	ANS: C PTS: 1 DIF: REF: 2.1 Genetic Influences on Development, Te OBJ: LO7: Describe prenatal testing methods for MSC: TYPE: Difficult	
87.		e ultrasound? Huntington's disease paternity

	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> </ul>
	d. DZ twins are more likely to be similar in height.  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  c. bases  b. androgens  d. androgens
	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

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

b. good nutrition 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.

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$\boldsymbol{\Box}$	ıΝ	O	

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