## https://selldocx.com/products/test-bank-hdev-4e-rathus-235 Class Dat Name e: Chapter 2 - Heredity and Prenatal Development 1. What is the definition of heredity? a. the molecular structure of the rod-shaped structures located in the cells b. physical traits determined by the combining of various genes c. the cell division process by which growth occurs and tissues are replaced d. one's nature, which is based on biological transmission of genetic material. ANSWER: d 2. Next year you will be pursuing an education in the field of heredity. If someone asked you what exactly you will be studying, which word would you most likely use? b. etiology genetics a. c. biology d. eugenics ANSWER: b 3. Which of the following is influenced by genetics? resilience a. b. eye colour motivation d. friendship choices c. ANSWER: b 4. What is the meaning of "heredity"? the manifestation of traits in a person's characteristics the biological transmission of traits and characteristics the combination of genes that influence our phenotype the division of cells that determine the person we become ANSWER: b 5. What is the name of the thousands of segments contained in chromosomes? nuclei b. cytosine d. phosphates c. b ANSWER: 6. If you were to paint a picture of a chromosome, what shape would you depict?

a rod a.

b. a cone

a circle c.

ANSWER:

ANSWER:

d. an octagon

b.

7. At the moment of conception, how many chromosomes does a healthy zygote contain?

a. 20 32

c.

d. 48

- 8. What characteristic is unique about polygenic traits?
  - They are uncommon in humans. a.
  - b. They are transmitted only by the female.
  - They are determined by many pairs of genes.

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a

c

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d	They are transm	nitted by a single	air of genes.	
ANSWER:	in They are trained	initial by a single	un of geneer	c
9. You are your reply?		nd one of your stu	lents asks: "How many genes ultim	nately govern our heredity?" What is
a		to 1,500 genes in	our cells.	
b	. We have 10,00	0 to 20,000 genes	in our cells.	
c	. We have 20,00	0 to 25,000 genes	in our cells.	
d	. We have 25,00	0 to 35,000 genes	in our cells.	
ANSWER:	,	, ,		c
10. DNA ta	akes the form of wh	at physical shape		
a	. a zipper		b. a straight ladd	
c	a twisting ladd	er	d. interlocking ci	ircles
ANSWER:				c
11. What b	ranch of science inc		_	
	a. chemistry	y	b. physics	
	c. biology		d. psycholog	xy
ANSWER:				c
12. Which	scenario results in c	conjoined twins?		
a.	Two ova are produ	ced and fertilized	by joined sperm cells.	
b.	Two eggs fail to se	parate on the 13th	day after conception.	
c.	Two different speri	m fertilize the san	e egg.	
d.	Cell mutation takes	s place prior to the	end of the first trimester.	
ANSWER:				b
	l and Alice have justes will Alice contri		joke, by stating "they are building	a baby." Precisely how many
	a.	13	b.	23
	c.	46	d.	92
ANSWER:				b
14. What is	the function of ger	nes?		
a.	They regulate the	development of to	nits.	
b.	They decide the g	ender of the child		
c.	They hardwire peo	ople for certain le	els of some traits.	
d.	They work togethe	er with lutein to in	fluence development.	
ANSWER:				a
15. What d	oes DNA stand for?	?		
a.	dionucleic acid		b. dionyotic acetate	
c.	deoxyribonucleic a	acid	d. diophosphate nuclei	c acetone

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ANSWER:					c
16. What is formed during mitosis?  a. mutation  c. sperm and ova cells  ANSWER:	b. d.		nromosomes cells with ident	ical DNA	d
17. What is another term for "reduction division a. mitosis c. cell death ANSWER:	1"?	b. d.	meiosis neural prunin	g	b
18. What method of cell reproduction allows for a. cloning c. mitosis  ANSWER:	r more genet b. d.	meios	•		b
19. Of the 23 pairs of chromosomes, 22 pairs lot term refers to these 22 pairs of chromosomes?  a. autosomes  c. sex chromosomes  ANSWER:	ook alike and	b.	ess genetic infor sperm cells identical chrom		
20. How many chromosomes are contained in a a. 23 c. 43  ANSWER:	cell created	durin	g meiosis? b. d.	25 46	a a
21. What factor determines the sex of a child?  a. the presence of diamniotic acetate in b. the sex chromosome received from c. the time in the ovulation cycle when d. the presence or absence of teratoger  ANSWER:	the father conception				Ь
22. Baby A has two X chromosomes while Bab about these two babies?  a. The babies will have different hair b. Baby A is a girl and Baby B is a b c. Baby A is a boy and Baby B is a g d. Baby A suffers a genetic error and	colour. oy. girl.			Y chromosome. V	What can you conclude
ANSWER:					ь
23. You are out with your friends and you want	to dazzle the	em wi	th your new chi	ild development k	nowledge. You decide

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to inform your friend Peter of his chromosome pat	tern. Which pattern do you des	cribe?
a. XX	-	XY
c. XYY	d.	XXY
ANSWER:		b
24. What is the result of a zygote that divides into	two cells that separate?	
a. mitosis	b. dizygotic tv	vins
c. cross-fertilization	d. monozygot	ic twins
ANSWER:		d
<ul><li>25. A woman gives birth to dizygotic twins. Without a. She is a young mother.</li><li>b. She is of Asian descent.</li><li>c. She has a decreased chance of subsequents.</li></ul>		at do you know about her?
d. She has an increased chance of giving bi	• •	OS
ANSWER:	rui to twins in future pregnanci	d
ANSWER:		ď
26. What term describes each member of a pair of	genes?	
a. an allele	b. an autoson	ne
c. a homozygous trait	d. a heterozy	gous trait
ANSWER:	J.	a
27. What term describes a person who has two alle	les for the same trait?	
a. dizygotic	b. homozy	gous
c. monozygotic	d. heteroz	ygous
ANSWER:		b
28. A person who inherits a gene for blonde hair a about the gene for brown hair?	nd a gene for brown hair will ha	ave brown hair. What can we conclude
a. It is more common.	b. It i	s recessive.
c. It is dominant.	d. It i	s rare.
ANSWER:		c
<ul><li>29. What is a defining characteristic of a recessive</li><li>a. It is expressed when it is paired with anot</li><li>b. It is expressed only when it is paired with</li><li>c. It is expressed regardless of whether it is</li><li>d. It is rarely passed on to offspring.</li></ul>	her recessive gene. a dominant gene.	ninant gene.
ANSWER:		a
20 77	1.1.0.1	
30. What can we conclude about a boy with two al	-	
a. He has blue eyes.	b. He is referred to as	* *
c. He is homozygous for eye colour.	d. He has eye colour	as a co-dominant trait.
ANSWER:		c
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31. Which of the following is a character		
-	ls when paired with recessive alleles.	
b. They come from the father of		
c. They are determined during m		
	arents during the germinal period.	_
ANSWER:		a
32. Which of the following results from a	a dominant trait?	
a. type O blood	b. straight hair	
c. myopia	d. farsightedne	ess
ANSWER:		d
33. Cathy and Doug both have brown eye genes for blue eyes?	es. If their child has blue eyes, what can we	conclude about Cathy's and Doug's
a. Both Cathy and Doug must be	carrying a recessive gene for blue eyes.	
b. Either Cathy or Doug must be	carrying a recessive gene for blue eyes.	
c. Both Cathy and Doug must be	carrying a dominant gene for blue eyes.	
d. Either Cathy or Doug must be	carrying a dominant gene for blue eyes.	
ANSWER:		a
34. Jill carries two genes for brown eyes, eye colour?	, and Jack carries two genes for blue eyes. W	What can we predict about their child's
a. Their child will have a 50% of	chance of having brown eyes.	
b. Their child will have a 75% of	chance of having brown eyes.	
c. Their child will have a 100%	chance of having blue eyes.	
d. Their child will have a 100%	chance of having brown eyes.	
ANSWER:		d
35. Maria and Eric are told they are "carr a. They bear co-dominant gene	riers" of a particular trait? What does that most for a trait.	ean?
b. They bear two dominant gen		
c. They carry two recessive ger		
	d one dominant gene for a trait.	
ANSWER:		d
36. A girl who has cystic fibrosis has mo her?	ved into your neighbourhood. Without havi	ng met her, what do you know about
a. She has a younger mother.		
b. She has more than 23 chromo	somal pairs.	
c. She cannot metabolize phenyl	lalanine.	
d. She did not have a dominant g	gene to cancel out the cystic fibrosis.	
ANSWER:		d

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<ul> <li>37. Which condition is caused by abnormalities in the 22 p</li> <li>a. cystic fibrosis</li> <li>c. sex-linked chromosomal abnormalities</li> </ul> ANSWER:	airs of autoson	nes? b. Down syndrom d. myopia	ne b
<ul> <li>38. Which of the following is an essential attribute of Dow</li> <li>a. It is caused by a virus during pregnancy.</li> <li>b. It is significantly more likely in boys than girls.</li> <li>c. It is caused by a defect on the sex chromosomes.</li> <li>d. It impacts cognitive and motor development but nanswer:</li> </ul>	·	tial for achievement.	d
39. What is the diagnosis of an infant born with 47 chromo a. phenylketonuria c. Down syndrome  ANSWER:	b. sic	of 46? kle-cell anemia y-Sachs disease	c
40. What is the cause of Down syndrome?  a. alcohol abuse by the father  b. alcohol abuse by the mother  c. sex-linked chromosomal abnormalities  d. abnormalities of the 21st pair of chromosomal abnormalities	nes		d
41. Which symptom describes Huntington disease (HD)?  a. infertility  b. an inability to metabolize an amino acid  c. an inability to control movements and emoti  d. complications such as blindness  ANSWER:	ons		c
42. According to the Huntington Society of Canada, when a. between 12 and 18 years of age c. before age 40 in women and 50 in men ANSWER:	b.	disease (HD) typically diagno in middle adulthood after the age of 60 years of ag	
<ul> <li>43. Which person has a recessive trait?</li> <li>a. Jack, who has dimples</li> <li>b. Martha, who has red hair</li> <li>c. Janice, who has been diagnosed as being fars</li> <li>d. David, who has very curly hair</li> </ul>	ighted		

ANSWER:

b

		d
1	o. They are infertile.	b b
ing the success schools is harn ions for learnin	of their child.  nful.  g and development is critical.	a
. at birth		
. upon enterii	ng kindergarten	b
_	blindness	d
pregnancy		a
What disorder d	oes Joshua have?	ment. Over
	•	c
	ents of children ring the success a schools is harm cions for learning istic expectation.  at birth ded-green colour emophilia carriers pregnancy development of What disorder down to the sickle down down to the sickle down	ed-green colour blindness emophilia  arriers pregnancy e development of an enzyme critical for development disorder does Joshua have? b. sickle-cell anemia

b. aproteins

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c. ketones	d.	phenylalanine	
ANSWER:		r,	d
52. Your friends are considering starting a family and about the likelihood of giving birth to a child who als a. They have a 10% chance of giving birth to	o has Huntingt a child with Hu	on disease? Intington disease.	What can you tell the couple
b. They have a 50% chance of giving birth to		•	
c. They have a 75% chance of giving birth to		-	
d. They have a 100% chance of giving birth to	a child with H	Iuntington disease.	
ANSWER:			b
53. You are a pregnant woman who has just consulted and ask what progress is being made to address it. Yo What have trials revealed?	ou are told that	clinical trials into a "gen	
a. a preventive medication that can be taken be	by pregnant wo	men	
b. an injection to the spine that appears to sto	p the progress	of the disease	
c. a cocktail of medications to be taken by in	fants to preven	t the disease	
d. an injection to the amniotic sac to cure the	disease in babi	es	
ANSWER:			b
54. Janet has Huntington disease and knows that appr What will cause this disease to occur in her children?		of her children will also	have Huntington disease.
a. a blood disorder	b. aı	ecessive trait	
c. a dominant trait	d. a <sub>1</sub>	personality disorder	
ANSWER:			c
55. Which person is most likely to develop sickle-cel	l anemia?		
a. a person of Asian descent		a person of African desc	ent
c. a person of Irish descent		a person of Jewish desce	
ANSWER:		1	ь
56. What is the cause of sickle-cell anemia?  a. a recessive gene			
b. a slow destruction of the liver leading to jau	ındice and swo	llen joints	
c. white blood cells that take on the shape of a	sickle and clu	mp together	
d. red blood cells that expand the blood vessel	s and increase	the oxygen supply	
ANSWER:			a
57. Trevor is an African-Canadian child who was bor		_	of his blood cells. He has
impaired cognitive skills, acute pain, and is blind. Wh			
a. phenylketonuria	b. 1	sickle-cell anemia	
c. Down syndrome	d.	Tay-Sachs disease	1
ANSWER:			b

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<ul><li>58. Your sister tells you her friend's child has been d know about this disease. What do you tell her?</li><li>a. It is caused by a dominant gene.</li><li>b. It is linked to the X chromosome.</li></ul>	iagnosed with Tay-Sachs disease. Your	sister asks you what you
c. It affects the pancreas and the lungs.		
d. It is a fatal degenerative disease of the cer	ntral nervous system.	
ANSWER:		d
59. Which individual is most likely to have Tay-Sacha. a 4-year-old child of Jewish descent	b. a 5-year-old child of Euro	•
c. a 10-year-old child of African descent ANSWER:	d. a 20-year-old male of Spa	anish descent a
60. Two-week-old Isaiah, a child of Jewish heritage, a. sickle-cell anemia c. Huntington disease	is most at risk of having which disease? b. hemophilia d. Tay-Sachs disease	,
c. Huntington disease  ANSWER:	d. Tay-Saciis disease	d
61. Debbie was born with a disease that has left her very predict that she will not live beyond the age of 5 years a. sickle-cell anemia c. Tay-Sachs disease		gical functioning. Her doctors
ANSWER:		c
62. According to the Canadian Cystic Fibrosis Founda. It is the least common fatal hereditary disea b. It results from an abnormality on the 20th pc. It is a blood disorder common to those with	ase among Canadians.  pair of chromosomes.  an Eastern European background.	stic fibrosis?
d. It affects approximately 1 in every 3,500 Ca ANSWER:	anadians.	d
AIVON E.K.		u
<ul> <li>63. What is the cause of cystic fibrosis?</li> <li>a. a recessive gene</li> <li>b. a dominant gene</li> <li>c. incomplete mitosis</li> <li>d. an abnormality in the 21st pair of chro</li> </ul>	mosomes	
ANSWER:	mosomes	a
<ul><li>64. Which of the following is a defining characteristi</li><li>a. It affects only females.</li><li>b. It is carried by the father's recessive generates</li></ul>	^	
c. It is carried on the X chromosome.		
d. It is caused by damage to the 14th chron	nosomal pair.	

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ANSWER:		c
65. What disorder is caused by a sex-linked genetic ab	normality?	
a. hemophilia	b. Tay-Sachs di	sease
c. cystic fibrosis	d. Huntington d	lisease
ANSWER:		a
66. Which statement best describes colour blindness?		
a. It is an enzyme disorder.	b. It is a disorder for	und only in children.
c. It is a protein-based disorder.	d. It is a sex-linked	-
ANSWER:		d
67. Why are sex-linked diseases more likely to affect s	yons of famala carriars?	
a. These diseases are carried on dominant gene		
b. These diseases are carried on the Y chromos		
c. Females are at a diminished risk because the		ofile
d. Males have only one X chromosome, which	•	
4NSWER:	they inherit from their in	d
INSTITUTE.		u
68. What is the primary purpose of genetic counselling	<u>5</u> ?	
a. to outline the genetic risks of unprotected se	ex	
b. to advise couples to abort their unborn child	lren	
c. to prove that a child will develop a certain i	llness	
d. to assist would-be parents in making decision	ons about having children	ı
ANSWER:		d
69. Dr. White specializes in prenatal medicine and per White most likely to recommend for an amniocentesis		enteses each year. Which woman is Dr
a. an Asian-Canadian woman	b. an African-C	Canadian woman
c. a woman older than age 35	d. a woman yo	unger than age 20
ANSWER:		c
70. You are scheduled to have an amniocentesis. What	t will occur during this m	edical process?
a. Fluid will be tested from the "sac" contain	ning the fetus.	
b. A biopsy will be taken from your spine.		
c. Your sperm will be tested for genetic abn	ormalities.	
d. Your eggs will be tested for genetic abnormal	rmalities.	
ANSWER:		a
71. What is the biggest risk of amniocentesis?		
a. cognitive delay in 1 of every 100 births		
b. cesarean delivery in 1 of every 100 births		

c. sterility in 1 of every 100 births

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d. fetal loss in one half of one percentage of	of all p	regnai	ncies			
ANSWER:	1	υ				d
72. When is amniocentesis usually performed?						
a. at 6-8 weeks			b.	at 9-12 weeks		
c. at 14-16 weeks			d.	at 20-23 weeks		
ANSWER:						c
73. You are 9 weeks pregnant and are concerned you likely be recommended?	ır baby	y may	have a	genetic defect. What mo	edical proced	ure will most
a. fetoscopy	b.	ultras	ound			
c. amniocentesis	d.	chori	onic v	illus sampling		
ANSWER:						d
74. What does CVS stand for?						
a. cervical villus sampling		b.	cervi	cal variability study		
c. chorionic villus sampling		d.	chorie	onic variability sampling		
ANSWER:						c
75. Your pregnant niece is scheduled for an amnioce What do you tell her about the process of amniocent a. It has not been used as frequently as CVS be abortion.	esis?					
b. It is carried out later in a pregnancy than a C	VS.					
c. It involves a procedure that inserts a small sy	yringe	throug	gh the	vagina.		
d. It involves the examination of villi from the	memb	rane tl	nat en	velops the amniotic sac a	nd fetus.	
ANSWER:						b
76. How does an ultrasound work?						
a. It allows the human ear to hear the fetus.						
b. It yields a picture called a "cat-scan."						
c. It bounces sound waves off the fetus.						
d. It uses X-ray photography to take a pictu	re of the	he unb	orn cl	nild.		
ANSWER:						c
77. What technique generates a picture of the fetus?						
a. a fetoscopy	b.	an u	ltraso	und		
c. an amniocentesis	d.	a ch	orioni	c villus sampling		
ANSWER:						b
78. What can an ultrasound detect?						
a. PKU		b	. cy	stic fibrosis		
c. Klinefelter syndrome		d	. the	e position of the fetus		
ANSWER:						d

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79. What is used to dete	ect neural tube defects such as	spina bifida? b. an Rh disea	ase test	
c. genetic cour			toprotein (AFP) assay	
ANSWER:		a. an aipila ie	toprotein (Fit 1) ussay	d
	oses the least risk to the fetus?			
a. an ultrasour		b.	an amniocentesis	
•	coprotein assay	d.	chorionic villus sampling	
ANSWER:				c
	of the alpha-fetoprotein assay			
a. to detect neural			to measure enzyme levels in	
	nromosome abnormalities	d.	to assess the degree of cognit	rive delay
ANSWER:				a
<ul><li>b. Because of th</li><li>c. The risk in fet</li></ul>	ociated with fetal testing.  e risks, fetal testing should no tal testing is to the mother, not l testing has some risk, it is so	t the fetus.	dered necessary.	
ANSWER:				d
83. What term refers to	the set of traits we inherit from	n our parents?		
a. gen	otype	b.	personality	
c. phe	notype	d.	temperament	
ANSWER:				a
81 What term refers to	our actual set of characteristic	es or traits?		
	otype	b.	personality	
	notype	d.	temperament	
ANSWER:				c
85. Which of the follow	ring is most influenced by env	ironment?		
a. gene	•	b.	genotype	
c. phe	notype	d.	chromosomes	
ANSWER:				c
	ents share with their children	and their sibling	gs?	
	nt genes only			
	e genes only			
	nately 25% of their genetic m			
	nately 50% of their genetic m	aterial		
ANSWER:				d

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87. Which of the following is a defining chara	• •	rins?	
a. They share 50% of their genetic ma			
b. They are as different as non-twin s	· ·		
c. They will look very similar in phys	* *		
d. They are formed from two eggs bu	t are fertilized by the same s	sperm.	
ANSWER:			c
88. Some twin pairs look more like each other	than other twin pairs. Whi	ch twin pairs resemble	each other the most?
a. monozygotic twin pairs	b. dizygotio	e twin pairs of either se	X
c. dizygotic twin pairs who are males	d. monozyg	gotic twin pairs who are	e female
ANSWER:			a
textbook, a similarity in which characteristic senvironment?  a. measures of strength	shared by monozygotic twin b. intelligence	s appears to be linked i	more to genetics than to
c. weight	d. number of chil	dren they conceive	
ANSWER:			b
90. Approximately how many live births in C	anada ara multinla hirths?		
a. 1 in 30	b.	1 in 20	
c. 1 in 10	d.	1 in 2	
ANSWER:			a
91. Which group shares the most similar gene	tic material?		
a. dizygotic twins		lmothers	
c. cousins		ozygotic twins	
ANSWER:		7.0	d
92. What is the general finding of studies on range a. They are identical in genetics, behave b. They are less alike, genetically, than c. They are no more alike in genetics, based. They share the same degree of genetics.	iours, and preferences.  dizygotic twins reared toget ehaviours, and preferences	ther. than non-twin siblings.	
ANSWER:	- Jimmaniy as monozygone	ms reared together.	d
			_
93. Jeffrey, who is an adopted child, has some adoptive parents. What is the most appropriat a. The adoptive parents have not inclub. Heredity plays a diminished role in	e conclusion? ded him in their family cult	ural activities.	parents than to his

ANSWER:

c. Environment influences who we are and who we become.

d. Genetics play a role in the development of certain human characteristics.

d

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94. How many ova does a human female have at birth?  a. zero; ova develop during puberty  c. approximately 400,000 ova  ANSWER:	b. betw	veen 50,000 and ions of ova	1 100,000 ova	c
<ul><li>95. What occurs during menstruation?</li><li>a. An unfertilized egg is discharged.</li><li>c. The fertilized egg undergoes meiosis.</li></ul> ANSWER:		rtilized egg und rtilized egg atta	ergoes mitosis. ches to the uterus.	a
<ul> <li>96. Which statement best describes the sperm cell befo</li> <li>a. It contains 46 chromosomes.</li> <li>b. It contains two X chromosomes.</li> <li>c. It is significantly larger than the egg cel</li> <li>d. It is more likely to conceive a girl than a ANSWER:</li> </ul>	1.			a
<ul> <li>97. Which of the following is a defining characteristic of a. It contains two Y chromosomes.</li> <li>b. It is significantly larger than the egg cell.</li> <li>c. It is one of the smallest types of cells in the d. It does not determine the gender of the devanswer:</li> </ul>	e body.			c
98. Which statement distinguishes the conception of ma. More males are conceived and more survive b. Fewer males are conceived, but more survive c. Fewer males are conceived and more are spend. More males are conceived and more are spend.	e to birth. ve to birth. ontaneously abort	ed.	les?	d
99. Approximately how many sperm cells are contained a. 50 million c. 150 million  ANSWER:	d in a single ejacu b. d.	late? 100 million 300 million		c
100. Only 1 in 1,000 sperm will arrive in the vicinity of from travelling the entire distance to the egg?  a. the woman's age  c. length of time since last ovulation	f an ovum. Which	of the following b. d.	ng factors may pre- menstruation gravity	vent sperm cells
ANSWER:	1.4.05			d
101. After ejaculation, how long does it take sperm to r	each the fallopian	tubes'?		

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a. 60 to 90 seconds	b. 5 to 1	5 minutes	
c. 20 to 30 minutes		90 minutes	
ANSWER:			d
102. The term "infertile" refers to a couple who have been uthis term is used?	insuccessful at con	nceiving. What criterion	n must be met before
a. one year of failed attempts			
b. four years of failed attempts			
c. four failed attempts to get pregnant			
d. two miscarriages in the fourth month of pregn	ancy		
ANSWER:			a
103. In Canada what percentage of infertility cases can be to	road to the man?		
a. 10	b.	20	
c. 30	d.	40	
ANSWER:	u.	10	d
104 W/h-4 : : : : : : : : :			
104. What can cause infertility problems in men?  a. use of drugs	b. lack of ex	varaisa	
<ul><li>a. use of drugs</li><li>c. excessive masturbation</li></ul>		otein in the diet	
ANSWER:	d. excess pr	otem in the diet	0
AIVSWER.			a
105. What term refers to the sperm's ability to move?			
a. infection	b. pro	pulsion	
c. evolution	d. mo	tility	
ANSWER:			d
106 Which of the full and a second infertility in an analysis of the full and the f	.9		
106. Which of the following may cause infertility in womer a. tattoos b. lack of p	hysical exercise		
c. stress d. motility	nysical exercise		
ANSWER:			c
mvon Lik.			C
107. What is the most common fertility problem in women?	•		
a. PID			
b. endometriosis			
c. irregular ovulation or lack of ovulation			
d. barriers to the passageways through which the o	vum must pass		
ANSWER:			c
108. In which process is sperm injected into the uterus at the	e time of ovulation	<b>.</b> ?	
	e time of ovulation artificial inseminat		
	oergonal	1011	
ANSWER:			b

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109. A Can conceiving		le want to have a child as	soon as possible. W	hat	are the	eir chances of having	difficulties	
concerving	а.	1 in 100			b.	1 in 50		
	c.	1 in 20			d.	1 in 6		
ANSWER:							d	
		es fertilized in vitro, teste mother-to-be. What term			structu	re, and then the embr	yos of the desired sex	
-	a.	PID	-		b.	IVF		
	c.	PGD			d.	OIV		
ANSWER:							c	
	ktbook tells It is predo It is predo	re having difficulty conc us about the cause of inf minately a woman's problem minately a man's problem em lies with the man abo	ertility being a male blem.			•	elationships. What	
d.	The proble	em lies with the woman a	about 80% of the time	e.				
ANSWER:							c	
112. What	is the correc	et order of the three prena	atal stages?					
a.	embryonic	, fetal, meiotic	b.	me	eiotic,	embryonic, fetal		
	germinal, f	etal, embryonic	d.	ge	rmina	l, embryonic, fetal		
ANSWER:							d	
		enatal development, conceribes this stage?	ception occurs, the zy	got	e divid	des, and then implanta	ation in the uterine wa	ıl
a.	the fetal	stage	b.	the	e mito	tic stage		
c.	the gern	ninal stage	d.	the	e embi	yonic stage		
ANSWER:							С	
114. What	is the fluid-	filled ball of cells that de	velops during the gen	rmir	nal sta	ge of pregnancy?		
	a. the f	fetus	b	٠.	the g	germin		
	c. the u	umbilicus	d	l.	the l	olastocyst		
ANSWER:							d	
a. It r b. It c c. It c	arely occurs occurs in appoccurs as a r	best describes a miscarria s during the first trimeste proximately one-third of esult of menstrual flow the	r of pregnancy. all pregnancies. nat occurs too late af				to the utarine well	
a. 11 18 ANSWER:	s common v	when women who are pre	gnam viceu during 11	шрі	amati(	m of the biastocyst in		
ANSWEK:							ь	
116. Mona	is told duri	ng her prenatal medical a	ppointment that the r	najo	or orga	nn systems have diffe	rentiated. What is this	;

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developmental stage called?  a. the fetal stage  c. the embryonic stage  ANSWER:	<ul><li>b. the germinal stag</li><li>d. the blastocystic s</li></ul>	
117. What develops from the neural tube during the pre	enatal period of development?	
a. the digestive system	b. the muscular syste	em
c. the arm buds and leg buds	d. the central nervou	•
ANSWER:		d
a. during the germinal period b. during the embryonic period c. when the X chromosome is present d. when secondary sex characteristics are p		b
110 What is the manner of the consistion of		
119. What is the purpose of the amniotic sac?  a. It develops into the umbilical cord.		
b. It contains fluid to allow the embryo and fet	tus to move around.	
c. It protects the developing organism from ha		
d. It permits the exchange of nutrients and was	ste with the mother.	
ANSWER:		ь
<ul><li>120. Which of the following is a defining characteristic</li><li>a. It develops from only the mother's tissue.</li><li>b. It is reused for each of a woman's pregnancies</li><li>c. It acts as an impermeable barrier that protects to the following in the contraction.</li></ul>	the developing fetus from toxing	
d. It acts as a filter that permits oxygen and nutrie	ents from the mother to reach th	
ANSWER:		d
121. During which stage of prenatal development does a. the fetal stage	the developing organism gain the b. the germinal stage	ne most weight and length?
c. the embryonic stage	d. the diaphragmatic s	tage
ANSWER:		a
<ul> <li>122. What has research concluded after studying fetuse</li> <li>a. Fetuses are unresponsive to outside stimuli.</li> <li>b. Fetuses respond to visual stimuli only.</li> <li>c. Fetuses respond to rate of speech and prefer for the fetuses.</li> </ul>	aster speakers to slower ones.	during the third trimester?
d Fetuses can learn to recognize the sounds of h	nooks being read to them	

ANSWER:

d

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<ul> <li>123. Which statement best describes the effects of a. Maternal malnutrition has been linked to b. The effects of fetal malnutrition cannot be c. Pregnant women can eat and drink whate mothers consume.</li> <li>d. Fetal overnutrition is more of a problem of an analysis.</li> </ul>	low birth weight and cardiovascue overcome after birth.  ver they want because their fetus	
124. Which woman has the highest likelihood of a. Janisha, who is 16 years old c. Tonya, who is 27 years old <i>ANSWER</i> :	b. Jill, who is 2	0 years old is 38 years old a
125. A first-time expectant mother is confused at Which of the following would you tell her?  a. They are only those substances the mode. They harm the fetus only when taken c. They are most damaging during the fed. They are environmental agents that cat ANSWER:	other's body produces. in extremely large doses. ital period of development.	risks they pose during her pregnancy.
<ul> <li>126. A pregnant friend is concerned that she may you would tell her?</li> <li>a. She should relax because pesticide exposes</li> <li>b. The amount of the substance and the time impact.</li> <li>c. There is a very good chance that her baby d. Pesticides are most harmful just before be ANSWER:</li> </ul>	ure will not harm an embryo or feeduring the pregnancy when she	etus. was exposed will determine the
127. How is HIV/AIDS transmitted in pregnant va. It is always transmitted from the pregnant b. It is usually transmitted during pregnancy c. It is caused by casual contact between the d. It is transmitted through breast milk or de ANSWER:	t woman to the unborn child.  y from the mother to unborn child e pregnant woman and someone	with the disease.
128 Which statement characterizes the relationship	nin hatayaan nraananay and muhall	[e]

128. Which statement characterizes the relationship between pregnancy and rubella?

- a. If a woman is infected within the first 20 weeks of pregnancy, she is at lower risk than if she were infected later.
- b. If a woman is infected within the first 20 weeks of pregnancy, the newborn may have birth defects.
- c. Women who had rubella as children are at an increased risk of being infected during pregnancy.
- d. Rubella during pregnancy is relatively harmless to the mother and child.

ANSWER:

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<ul><li>129. Which of the following is a characteristic of</li><li>a. It has clear causal factors.</li><li>b. It sometimes causes maternal death.</li></ul>	toxemia?				
c. It is a problem for only the unborn ch	nild.				
d. It usually causes babies to be born ex	tremely overweight.				
ANSWER:					b
a. It is worse for a woman who is having he b. It is a disorder that can be treated through c. It is a problem that inflicts approximately	r first pregnancy.  surgery when the feture 90% of Canadian cou	is is in the	e uterus.		ı a
d. It causes a mother's body to produce anti- ANSWER:	bodies that attack the i	tetus and	can lead to brain	damage or d	leath. d
31. Which term refers to the environmental factors.  a. stressors  c. genetic inhibitors  ANSWER:	ors that contribute to be	irth defec b. d.	ts? teratogens toxins		b
132. What substance was once used to treat inson a. DES c. antibiotics  4NSWER:	nnia and nausea but car b. d.	used majo hormon thalidor	es		d
a. They rarely cause damage to a developin b. They are as dangerous as heroin and met c. They should be taken in the dosage direc d. They are most effective when taken in his answer:	g fetus. hadone. ted by a doctor.			·	c
a. Infants incur learning problems, but no plus b. Infants incur significant long-term physic c. Addiction to marijuana as an adult is incred. Because this substance is rarely used, restance.	hysical problems. cal deficits. ceased in an embryo or	fetus exp	oosed to marijuan	a in utero.	c
<ul><li>a. It is safe after the end of the second tri</li><li>b. It should be encouraged because it relate.</li><li>c. It may lead to cognitive deficits and plants.</li></ul>	mester. axes the mother.		cy?		

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d. It is safe as long as fewer than	two drinks are consumed per day.	
ANSWER:		c
a. It is difficult to measure the prese b. It is inconclusive in terms of caffe c. Caffeine has the same effect as co d. Such research is limited because the ANSWER:	ence of caffeine in the bloodstream.	
	s.	-
	trasound and X-rays.	hysical deformations.
ANSWER:		b
	earing success.	s.
ANSWER:		c
140. The science of heredity is called "eug a. b. <i>ANSWER</i> :	genics." True False	False
141. Each cell in our body contains 26 chr	romosomes	
a. b.  ANSWER:	True False	False

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	a.	True		
	b.	False		
ANSWER:			True	
143. DNA takes the fo	orm of a double helix	, or twisting ladder, is made up o	of base pairs, and determines how	the organism
	a.	True		
	b.	False		
ANSWER:			True	
144. After mitosis, a c	cell has 23 pairs of ch	romosomes.		
	a.	True		
	b.	False		
ANSWER:			True	
145. Polygenic traits a	are transmitted by a si			
	a.	True		
	b.	False		
ANSWER:			False	
146. Sex chromosome	es utilize meiosis to d	ivide.		
	a.	True		
	b.	False		
ANSWER:			True	
147. The typical sex c	hromosome pattern f	or females is XY.		
	a.	True		
	b.	False		
ANSWER:			False	
148. Monozygotic twi	ins are conceived from	n separate egg cells.		
	a.	True		
	b.	False		
ANSWER:			False	
149. Huntington disea	se is a fatal, progress	ive degenerative disorder and a	recessive trait.	
	a.	True		
	b.	False		
ANSWER:			False	
150. "Carriers" for tra	its have two recessive	e genes for those traits.		
	a.	True		
	b.	False		
ANSWER.			False	

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151. Type A blood is a	recessive trait.		
	a.	True	
	b.	False	
ANSWER:			False
152. PKU is transmitted	d by a dominant gen	e.	
	a.	True	
	b.	False	
ANSWER:			False
153. Genetic counsellin	ng is used only prior	to a woman getting pregnant.	
	a.	True	
	b.	False	
ANSWER:			False
154. Our phenotype is i	influenced by the en	vironment	
ie ii e ur prienet, pe is i	a.	True	
	b.	False	
ANSWER:			True
155. Parents and childre	en have 25% overla	n in genes	
155. I divinis dila villiar	a.	True	
	b.	False	
ANSWER:			False
156 Low sperm count	is the most common	infertility problem in men.	
reov zew sporm country	a.	True	
	b.	False	
ANSWER:			True
157. Monozygotic twin reared together.	s reared apart share	just as many similarities in tem	perament and personality as monozygotic twins
-	a.	True	
	b.	False	
ANSWER:			True
158. A person who has	a dominant trait for	brown eyes and a recessive train	t for blue eyes is most likely to be brown-eyed.
•	a.	True	
	b.	False	
ANSWER:			True
159. Diabetes mellitus.	epilepsy, and pentic	culcers are caused by genetic fa	actors alone.
	a.	True	

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	b.	False	
ANSWER:			False
160. Down syndrome is	s associated with an	extra chromosome on the 21	st pair.
	a.	True	
	b.	False	
ANSWER:			True
161. Sickle-cell anemia	a is more common a	mong Caucasian North Amer	ricans than minority groups in the North America.
	a.	True	
	b.	False	
ANSWER:			False
162. Most people with	Tay-Sachs disease	die in their mid- to late-forties	s.
	a.	True	
	b.	False	
ANSWER:			False
163. Hemophilia is a ty	pe of sex-linked ge	netic abnormality.	
	a.	True	
	b.	False	
ANSWER:			True
164. Ultrasound uses ha	armless sound wave	es to examine the developing	organism.
	a.	True	
	b.	False	
ANSWER:			True
165. Amniocentesis and	d CVS have no kno	wn risks to the unborn embry	ro.
	a.	True	
	b.	False	
ANSWER:			False
166. Monozygotic twin	ns share more person	nality traits and physical traits	s than dizygotic twins.
	a.	True	
	b.	False	
ANSWER:			True
167. Women create via	ble ova throughout	their lives, from their first pe	riod through menopause.
	a.	True	
	b.	False	
ANSWER:			False

168. Sperm are responsible for determining the gender of the offspring.

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	a.	True	
	b.	False	
ANSWER:			True
169. Infertility is alwa	ys the woman's prob	olem.	
	a.	True	
	b.	False	
ANSWER:			False
170. Artificial insemir	nation involves impla	anting a viable embryo into the	uterus of a woman.
	a.	True	
	b.	False	
ANSWER:			False
171. Physicians may t	reat endometriosis th	rough surgery or with hormone	s that temporarily prevent menstruation.
	a.	True	
	b.	False	
ANSWER:			True
172. It is currently imp	possible to select the	sex of one's child.	
	a.	True	
	b.	False	
ANSWER:			False
173. During the germi uterine wall.	inal period of develop	pment, the ovum is fertilized, co	ells divide, and the blastocyst is implanted in the
	a.	True	
	b.	False	
ANSWER:			True
174. Nearly one-third	of all pregnancies re	sult in miscarriage.	
	a.	True	
	b.	False	
ANSWER:			True
175. The major organ	systems differentiate	during the embryonic period o	f development.
	a.	True	
	b.	False	
ANSWER:			True
176. Sexual differentia	ation of the embryo i	s determined by the presence of	the X chromosome.
	a.	True	
	b.	False	
ANSWER:			False

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177. The placenta prot	ects the developing	organism from all harmful substan	ces.
	a.	True	
	b.	False	
ANSWER:			False
178 During the fetal r	period of prenatal des	velopment, the fetus responds to light	oht and sounds
170. During the letter p	a.	True	sir und sounds.
	b.	False	
ANSWER:			True
170 Desire a the minth		41 6.4 1	thing and the Court of the birds are
1/9. During the ninth	month of pregnancy, a.	the fetus becomes more active, ge	iting ready for the birth process.
	ь.	False	
ANSWER:	0.	Taise	False
mon Erc.			Taise
180. Since fetuses take	e what they need from	n the mothers, few babies are born	malnourished.
	a.	True	
	b.	False	
ANSWER:			False
181. Fetuses "take wh	at they need" nutritic	onally from the mother and therefo	re mothers are free to eat what they want.
tor. I clases take with	a.	True	to monors are not to our what they want
	b.	False	
4NSWER:			False
182. Teratogens includ	de drugs, heavy meta	ls, and disease-causing organisms.	
	a.	True	
ANGILLED.	b.	False	T.
ANSWER:			True
183. Teratogens have	the same effect on th	e developing organism throughout	pregnancy.
8	a.	True	
	<b>b</b> .	False	
ANSWER:			False
104 D' 1	1 '1' 1 1 1 1 1 7 7 / 4 1	DG 1.1 C1. 1 C.	1
184. Diseases such as		DS are rarely harmful to the fetus	or newborn infant.
	a. 1-	True	
ANCWED.	b.	False	Folso
ANSWER:			False
185. Rubella causes de	eafness, intellectual c	challenges, and heart problems.	
	a.	True	
	b.	False	

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ANSWER:			True
186. Toxemia may caus	se maternal deaths.		
	a.	True	
	b.	False	
ANSWER:			True
187. Rh incompatibility	v is primarily a prob	lem after a first pregnancy.	
	a.	True	
	b.	False	
ANSWER:			True
188. Commonly used d	lrugs such as aspirin	rarely cause problems for t	etuses.
	a.	True	
	b.	False	
ANSWER:			False
189. Thalidomide cause	es major limb defor	mities during pregnancy.	
	a.	True	
	b.	False	
ANSWER:			True
190. DES was used to poffspring.	prevent miscarriage	in the 1940s and 1950s but	caused cervical and testicular cancer in some
	a.	True	
	b.	False	
ANSWER:			True
191. Vitamins cause no	harm in developing	g fetuses.	
	a.	True	
	b.	False	
ANSWER:			False
192. Use of illicit drugs impairments later in life		heroin, and cocaine during	pregnancy may cause offspring to have cognitive
	a.	True	
	b.	False	
ANSWER:			True
193. Babies born to fath	hers who smoke cig	arettes have higher rates of	birth defects.
	a.	True	
	b.	False	
ANSWER:			True

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194. Environmental hazards such as lead and radiation may	y cause irreparable, long-t	erm harm both physically and

194. Environmental hazards such as lead and radiation may cause irreparable, long-term harm both physically and cognitively.

a. True

b. False

ANSWER: True

195. The ages of both parents have been found to impact the health of a baby.

a. True

b. False

ANSWER: True

196. Briefly describe the difference(s) between cell division as the result of "meiosis" and cell division as the result of "mitosis."

ANSWER:

Meiosis is also referred to as "reduction division." In other words, the 46 chromosomes within the cell nucleus line up into 23 pairs. These 23 pairs then split and one member from each pair goes to each newly formed cell. Because of this process, the newly formed cells have half the genetic material contained in the original cell. In this sense, the cells are not identical but share 50 percent genetic similarity. With mitosis, the identical genetic code is carried into each newly formed cell in the body. In other words, when these cells divide, the resulting cells will be identical to the cells that divided to form them. Cloning results from mitosis. Because the newly formed cells are "replications" of the preceding cell, the new cells show no genetic variability.

197. Briefly describe the difference(s) between "recessive" and "dominant" genes.

ANSWER:

Some genes are "dominant" and others are "recessive." Dominant genes are more likely to be expressed than recessive genes. Eye colour is a good example. With eye colour, brown eyes are dominant and blue eyes are recessive. If one parent carries the gene for brown eyes only and the other for blue eyes only, the offspring will have brown eyes (that colour will dominate). If, however, both parents carry recessive genes for blue eyes, those genes can combine and blue eyes will be expressed. In a sense, two recessive genes can overcome the dominance of a single gene.

198. Describe two examples of recessive genetic disorders.

ANSWER:

Recessive disorders: Sickle-cell anemia is a recessive disorder because both parents must contribute a recessive allele for the disorder for the offspring to display sickle-cell anemia. In this disorder, the red blood cells become sickle-shaped, which allows less oxygen to be carried in the body. This lack of oxygen may impair cognitive abilities. Tay-Sachs disease is another recessive disorder, again, a result of both parents contributing a recessive allele for the disease. Tay-Sachs causes the central nervous system to degenerate with a loss in sensory abilities, mental ability, and then death by approximately age 5.

199. What is "amniocentesis?" When is it likely to be performed and what can be determined by doing so?

ANSWER: Amniocentesis is a procedure that is sometimes used to detect genetic abnormalities in unborn children. The procedure involves withdrawing fluid from the amniotic sac that contains the fetus. Fetal cells that are contained in the fluid can then be examined for genetic abnormalities. This procedure is more likely to be performed in mothers over the age of 35 because of their increased risk for disorders such as Down's syndrome. Additionally, this procedure may be recommended in cases where the parents have a familial history for Tay-Sachs, muscular dystrophy, or Rh incompatibility.

200. A friend has asked you to describe the difference between "genotype" and "phenotype." On the basis of the material in Chapter Two of the textbook, how would you describe the difference?

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ANSWER: Genotype refers to the genetic material that is received from one's parents. Characteristics such as blood type and eye colour, for example, are determined by our genotype. Genotype determines a range in which we might develop. It might, for example, determine how intelligent we could become. But genotype alone does not determine who or what we become. Our phenotype refers to how our characteristics are expressed. Someone might, for example, have the potential to grow quite tall, but the environment and other forces, such as nutrition, may influence how much of that genotype potential for height is realized. Phenotypes, then, are the product of both genetic and environmental influences.

201. How does studying monozygotic and dizygotic twins help in understanding the genetic basis for a trait or behaviour?

ANSWER: Monozygotic twins are identical in their genetic endowment, whereas dizygotic twins share as much of their genetics as non-twin siblings do. This difference allows researchers to tease apart the relative contributions of genetics and environment for a variety of different traits and behaviours, such as temperament, intelligence, and personality. When monozygotic twins have very different characteristics, the likelihood is greater that genetics are not involved or at least are less involved in the development process. It is not always possible to determine whether a specific characteristic is genetically determined; however, monozygotic twins often are treated in very similar ways as a result of appearing to be so similar.

202. Describe two different methods of helping infertile couples.

ANSWER: In vitro fertilization involves extracting ripened ova from a woman and introducing them to a man's sperm in a laboratory dish. Following fertilization, the fertilized ovum is then injected into the woman's uterus. In some cases, such as when the woman is unable to release her own viable eggs, the ova may be sourced from a donor. Some infertile couples use a surrogate mother. The surrogate mother may use either her own ova or those of another woman and the sperm of either the biological father or another donor; she then carries the resulting baby to term. Surrogate mothers are often compensated financially for their time and effort.

203. What are some of the major fertility problems for males and females? What are possible causes of these problems?

ANSWER: For males, the primary fertility problems include low sperm count, deformed and low sperm motility, and chronic diseases such as diabetes. Men's fertility problems have a variety of causes: genetic factors, environmental poisons, diabetes, sexually transmitted infections (STIs), overheating of the testes (which is sometimes experienced by athletes, such as long-distance runners), pressure (as from using narrow bicycle seats), aging, and certain prescription and illicit drugs. Sometimes the sperm count is adequate, but the sperm may have been deformed or deprived of their motility by other factors, such as prostate or hormonal problems. Motility can also be impaired by the scar tissue from infections such as STIs.

For females, the primary fertility problems are irregular ovulation, declining hormones levels, endometriosis, and obstructions or malfunctions of the reproductive tract. Infections may scar the fallopian tubes and other organs, impeding the passage of sperm or ova. Such infections include pelvic inflammatory disease (PID). PID can result from bacterial or viral infections, including the STIs gonorrhea and chlamydia.

204. What is a teratogen? Describe two teratogens and their effects on the developing organism.

ANSWER: Thalidomide was a drug used during the 1960s to control insomnia and nausea in pregnant women. This drug led to the birth of thousands of babies with severe limb malformations. Alcohol use during pregnancy may cause facial and other abnormalities, mental retardation, hyperactivity, and other cognitive deficits.

205. A friend of yours is pregnant. She has read about the potential problems that could occur with a pregnancy. On the basis of this chapter, what three pieces of advice would you offer to ease her concerns for her unborn child?

ANSWER: The chances of problems during pregnancy are enhanced by external factors such as toxins (alcohol, smoking) and maternal characteristics (such as genetics and age at conception). Some of these factors can be minimized and/or avoided. If your friend is really worried, she may want to consider genetic counselling to

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learn whether she needs to be aware of any serious disorders. Additionally, however, genetic screening procedures bring some element of risk to the pregnancy. The best thing the mother can do is to make the fetal environment as healthy as possible. She can exercise, take prenatal vitamins, eat a balanced diet, and refrain from smoking or ingesting alcohol and other drugs. Lastly, her overall chances of delivering a healthy child are significantly higher than her chances of having a child with a disease or a disorder.

- a. sex-linked genetic abnormality
- b. both alleles for a trait are the same
- c. cell division that results in identical cells
- d. the genetic material received from parents
- e. caused by a recessive gene
- f. polygenically determined
- g. male hormone
- h. genetically male
- i. twins produced from a single egg
- j. cell division that results in non-identical cells
- k. union of an ovum and a sperm cell
- 1. female hormone
- m. associated with the 21st pair of chromosomes
- n. how genetic material manifests itself in characteristics
- o. twins produced from two eggs
- p. present at birth
- q. determined by father
- r. both alleles for a trait differ
- s. caused by a dominant gene
- t. genetically female *QUESTION TYPE*: Matching *CUSTOM ID*: 02-206

206. XY sex chromosomes

ANSWER: e

207. Monozygotic

ANSWER:

208. Sickle-cell anemia

ANSWER:

209. Meiosis

ANSWER: j

210. Phenotype

ANSWER:

Name :	Class ::	Dat e:e:
Chapter 2 - Heredity and Prenatal Dev	relopment	
211. Homozygous  ANSWER:		b
212. Hemophilia  ANSWER:		a
213. Down's syndrome  ANSWER:		m
214. Huntington disease  ANSWER:		S
215. Intelligence ANSWER:		f
216. Dizygotic  ANSWER:		O
217. Mitosis ANSWER:		c
218. Genotype  ANSWER:		d
219. Heterozygous  ANSWER:		r
220. Testosterone  ANSWER:		g
221. Gender of child ANSWER:		q
222. XX sex chromosomes  ANSWER:		t
223. Estrogen ANSWER:		1
224. Conception  ANSWER:		k
225. Congenital  ANSWER:		p