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Chapter 2—Heredity and Conception

MULTIPLE CHOICE

1. H	eredity	is	defined	as
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- a. one's nature, and is based upon biological transmission of traits and characteristics.
- b. the spiral shaped structures found in cells.
- c. traits that are determined by pairs of genes.
- d. the process of cell division.

ANS: A REF: The Influence of Heredity OBJ: 1 DIF: Factual

- 2. The field within the science of biology that studies heredity is called
 - a. etiology.
 - b. genetics.
 - c. molecular biology.
 - d. gametogenesis.

ANS: B REF: The Influence of Heredity OBJ: 1 DIF: Factual

- 3. Genetics appears to play a role in not only the transmission of physical traits, such as height and eye color, but also in
 - a. intelligence.
 - b. personality traits such as shyness and anxiety.
 - c. psychological problems such as schizophrenia and depression.
 - d. All of the above

ANS: D REF: The Influence of Heredity OBJ: 1 DIF: Factual

- 4. "Heredity" means
 - a. biological transmission of traits and characteristics.
 - b. how your traits manifest themselves in your characteristics.
 - c. how cells divide to determine who we become.
 - d. how genes combine to influence our phenotype.

ANS: A REF: The Influence of Heredity OBJ: 1 DIF: Factual

- 5. Chromosomes contain thousands of segments called
 - a. nuclei.
 - b. genes.
 - c. phosphates.
 - d. cytosines.

ANS: B REF: The Influence of Heredity OBJ: 1 DIF: Factual

- 6. What shape best describes chromosomes?
 - a. Cone
 - b. Rod
 - c. An X
 - d. An octagon

ANS: C REF: The Influence of Heredity OBJ: 1 DIF: Factual

7.	A normal human cell a. 20; 10 b. 32; 16 c. 46; 23 d. 48; 24	l contair	ns chromosomes organized into	p	airs.	
	ANS: C	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual
8.		-	pe, are transmitted by a single pair of pairs of genes. These traits are ca	-	Other t	raits are
	ANS: B	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual
9.	Polygenic traits a. are transmitted b b. are uncommon i c. are transmitted b d. result in more co	n humar y the m	other.			
	ANS: D	REF:	The Influence of Heredity	OBJ:	1	DIF: Conceptual
10.	every cell of our bod a. 1,000-1,500 b. 10,000-20,000 c. 20,000-25,000	ies:	al Genome Sequencing Consortium (
	ANS: C	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual
11.	DNA takes the form a. a twisting ladder b. a straight ladder. c. an octagon. d. interlocking circle					
	ANS: A	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual
12.	In DNA, the sides of a. adenine. b. thymine. c. cytosine. d. simple sugar.	the lade	der consist of alternating segments of	f phosph	nate and	
	ANS: D	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual

13.	Which is the smallea. A geneb. The DNA helixc. A celld. A zygote				
	ANS: A	REF:	The Influence of Heredity	OBJ: 1	DIF: Factual
14.	In DNA, adenine is a. thymine; simple b. thymine; guani c. guanine; simple d. guanine; thymi	e sugar ne e sugar	ith and cytosine with	- -	
	ANS: B	REF:	The Influence of Heredity	OBJ: 1	DIF: Factual
15.	Each cell in our boa. contains 26 chrb. is turned "on" c. contains 30,000 d. All of these	omosome	y cytosine.		
	ANS: C	REF:	The Influence of Heredity	OBJ: 1	DIF: Factual
16.	Of the 46 chromoso a. All b. It depends upon c. Twenty-three d. None		normal human cell, how many a	are contributed by	the mother?
	ANS: C	REF:	The Influence of Heredity	OBJ: 1	DIF: Factual
17.	a. Regulate the deb. Determine thec. Work together	evelopme gender of with lute		nes do?	
	ANS: A	REF:	The Influence of Heredity	OBJ: 1	DIF: Conceptual
18.	DNA consists of al a. phosphate. b. indolamine. c. cytosine. d. guanine.	l of the fo	ollowing EXCEPT		
	ANS: B	REF:	The Influence of Heredity	OBJ: 1	DIF: Factual

19.	DNA stands for a. deoxyribonucle b. dionyotic acetat c. diophosphate no d. dionucleic acid.	e. icleic ac	etone.			
	ANS: A	REF:	The Influence of Heredity	OBJ:	1	DIF: Factual
20.		n which s	rial from one sheep to clone Dolly, n she was cloned. Cloning utilizes the ent.			ically identical to
	ANS: A	REF:	The Influence of Heredity	OBJ:	2	DIF: Applied
21.	Through the process a. meiosis b. autosome replac c. Mendel replicat d. mitosis	cement	, our genetic code is carried	l into ne	w cells i	in our bodies.
	ANS: D	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual
22.	The process of mito occurs? a. Reduction divis b. Cell death c. Mutations d. Neural pruning		ts in new cells containing identical g	enetic co	odes. Th	at is, unless what
	ANS: C	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual
23.	Sperm and ova are pa. cloning. b. mutation. c. cross-fertilization. d. reduction divisi	on.	through meiosis, otherwise known	as		
	ANS: D	REF:	The Influence of Heredity	OBJ:	2	DIF: Conceptual
24.	Of the 23 pairs of cl the same traits. The a. sex chromosom b. identical chrom c. autosomes. d. None of the abo	se are es. osomes.	mes, 22 pairs look alike and possess	genetic	informa	tion concerning
	ANS: C	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual

25.	a. The sex chromb. It depends upoc. The age of the	b. It depends upon what time in the ovulation cycle conception occursc. The age of the mother					
	ANS: A	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual	
26.	The typical sex chr a. XX; XY b. XY; XX c. XYY; XX d. XYY; XY	omosome	e pattern for males is and for	females	is	<u>_</u> .	
	ANS: B	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual	
27.	If a woman producthe result is a. monozygotic twins b. dizygotic twins c. homozygous twins d. a single pregna	wins. s. vins.	ra in the same month and these are for	ertilized	by diffe	rent sperm cells,	
	ANS: B	REF:	The Influence of Heredity	OBJ:	2	DIF: Conceptual	
28.	a. monozygotic twb. dizygotic twinsc. cross-fertilizatid. mitosis.	wins.	vo genetically identical replicas is ca	lled			
	ANS: A	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual	
29.	Of twin pregnancie a. One-half b. One-third c. Two-thirds d. One-fourth	es, how m	any of these are dizygotic twins?				
	ANS: C	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual	
30.	a. They are also cb. They result whc. They occur with	alled "fra en two eg h differer	ccurate about monozygotic twins? ternal" twins tgs are fertilized t frequency in different ethnic group in older women	os			
	ANS: D	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual	

31.	a. They usually incb. They are also cac. They are more c	clude on lled "id ommon	now than in the past requency among all ethnic groups			
	ANS: A	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual
32.	a. They are more cb. They are more cc. They are more c	ommon ommon ommon	gotic twins is MOST accurate? among African Americans than any among Asian Americans among European Americans requency among all ethnic and racial		hnic or	racial group
	ANS: A	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual
33.	c. is likely to be a	Asian Achance young n	American. of subsequent pregnancies.	gnancie	s.	
	ANS: D	REF:	The Influence of Heredity	OBJ:	2	DIF: Factual
34.	a. irregular ovulatib. irregular sperm;c. irregular ovulati	on; ferti fertility on; irreg genetic	drugs	OBJ:		DIF: Conceptual
35.	Each member of a p a. homozygous tra b. heterozygous tra c. autosome. d. allele.	it.	enes is referred to as a/n			
	ANS: D	REF:	The Influence of Heredity	OBJ:	3	DIF: Factual
36.		ourebrec	with pea plants, discovered that the old dwarf pea plants were tall. Mendel of			
	ANS: B	REF:	The Influence of Heredity	OBJ:	3	DIF: Conceptual

37.	 7. If a child receives a dominant allele for brown hair from one parent and a recessive allele for blonde hair from the other, what do we know? a. The child will have blonde hair b. We cannot predict the potential hair color of the child based upon this information c. The child will have brown hair d. The child will be female 					
	ANS: C	REF:	The Influence of Heredity	OBJ: 3	DIF: Applied	
38.	If a child receives an a. going to have blub. homozygous for c. heterozygous for d. exhibiting the law	ie eyes. that trai that tra	it.	eyes, then the	child is	
	ANS: C	REF:	The Influence of Heredity	OBJ: 3	DIF: Applied	
39.	What percent of the civil have blond hair? a. 25% b. 50% c. 75% d. 100%		g of brown-haired parents who carry	recessive gene	es for blonde hair	
	ANS: A	REF:	The Influence of Heredity	OBJ: 3	DIF: Factual	
40.	b. come from the fac. determine physic	ther of all chara			arent that	
	ANS: A	REF:	The Influence of Heredity	OBJ: 3	DIF: Factual	
41.	a. the other parent Ib. characteristics inc. they are male.	nas a rec the env	naracteristics can pass that characteristics can pass that characteristics gene for the same characteristic prironment activate it.	•		
	ANS: A	REF:	The Influence of Heredity	OBJ: 3	DIF: Conceptual	
42.	Some examples of rea. curly hair. b. type O blood. c. type A blood. d. farsightedness.	cessive	traits include blonde hair, lactose in	tolerance, myo	pia, and:	
	ANS: B	REF:	The Influence of Heredity	OBJ: 3	DIF: Factual	

43.	 People who bear one dominant and one recessive gene for a trait are a. going to automatically pass that characteristic on to their offspring. b. definitely going to develop that characteristic. c. called "carriers" of the recessive gene. d. not going to pass that characteristic on to their offspring. 					
	ANS: C	REF:	The Influence of Heredity	OBJ:	3	DIF: Factual
44.	As a result, Jake will a. farsighted vision b. nearsighted vision c. red-green color d. normal vision.	ll have n. on (myo blindnes	s.	e trait for re	ed-green	color blindness.
	ANS: D	REF:	The Influence of Heredity	OBJ:	3	DIF: Applied
45.	Someone suffering a. carries it as a reb. did not have a dc. has more than 2 d. is likely to have	cessive g lominant 3 chrom	gene. gene to cancel it out. osomal pairs.			
	ANS: B	REF:	The Influence of Heredity	OBJ:	4	DIF: Conceptual
46.	a. cystic fibrosis.b. Down syndromec. sex-linked chroid. All of these	e. mosomal		on.		
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
47.	a. have unknown ofb. are the result of	causes. genetics factors i	n the person's environment.	rial problems	s, that is	, they
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
48.	Dev is 45 years old. likely to have a child a. red-green color b. Turner's syndromous c. cystic fibrosis. d. Down syndromous ANS: D	d with blindnes ome.	red to men who are below the ags. Chromosomal Abnormalities	e of 30, Dev OBJ:		to six times more DIF: Applied

49.	 There is a positive correlation between age of parents and incidence of Down syndrome. What does this mean? a. Younger parents are more likely to have children with Down syndrome b. Older parents are more likely to have children with Down syndrome c. Older parents are less likely to have children with Down syndrome d. All parents, regardless of their age, are equally likely to have children with Down syndrome ANS: B REF: Chromosomal Abnormalities OBJ: 4 DIF: Conceptual 					
50.	Individuals with Dova. do not typically b. have few, if any c. show deficits in	wn synd suffer ac , physica cognitiv	rome djustment problems. al problems.			
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
51.	Down syndrome is li a. alcohol abuse by b. abnormalities of c. sex-linked chron d. None of these	the fath the 21st	ner. pair of chromosomes.			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
52.	a. they may be lessb. they are much m	intellig ore agg	XYY males are over-represented in pent than "normal." ressive than is "normal." es against persons, not property.	rison po	pulation	ns. This suggests
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied
53.		r than a ls of int delayed	verage. elligence than average. , such as in language development.			
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
54.	in the configuration	XYY? is disord	e of occurrence of males who have and the affects females only Chromosomal Abnormalities	OBJ:		osome, resulting DIF: Factual

55.	 55. In comparison to the average male population, individuals with Klinefelter's syndrome a. produce more estrogen than normal. b. produce less estrogen than normal. c. produce more testosterone than normal. d. produce less testosterone than normal. 					
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
56.	What is the incidence a. 1 in 150 men b. 1 in 300 men c. 1 in 500-900 med. 1 in 2,500 men		e of occurrence, of Klinefelter's synd	rome?		
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
57.	testosterone replacer	ment the not rever ndrome. e. ndrome.	nt for a sex-linked chromosomal abnorable, which fosters the growth of masse his sterility. Roger is being treated	le sex c		
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied
58.	A girl who does not a. likely produces b. may have only c c. may have Turne d. All of these	low leve one X se	x chromosome.			
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied
59.		trogen.	as girls who do not have Turner's synne than normal.	drome.		
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
60.	Compared to girls w a. have an extra X b. have an extra Y c. are taller than av d. have a single X	sex chrosex chroverage.	omosome.	syndro	ome	
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual

61.	Anya is female. She is infertile and has trouble with visual-spatial skills and mathematics. She most likely has a. Turner syndrome. b. Single X syndrome. c. Triple Y syndrome. d. "Superfemale" syndrome.					
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied
62.	b. none of the childc. their daughters a	four wil ren will re more	f PKU, l develop the disorder. develop the disorder. likely to develop the disorder than t develop the disorder.	heir sons	S.	
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
63.	Phenylketonuria is a. an enzyme disord b. transmitted by a c. a disorder that m d. All of these	domina	nt gene. itself in all children of carriers.			
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
64.	_	the 21 st on a sp	pair of chromosomes. ecial diet at soon as possible.			
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
65.	substance builds up i a. causes them to be b. causes night blin c. causes hemophil d. impairs central n	n their le overwing dness. ia. ervous	reight.			
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual
66.	does this mean? a. PKU can be cure b. PKU can be cont c. The condition wi d. Their child can d	ed throu crolled t ill disap levelop	hrough a strict exercise regiment pear by the time their child is six mo- normally if placed on a special diet of	onths old	l	
	ANS: D	KEF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied

67.	disorder		al, progressive degenerative disorder	. People	e who ha	ave Huntington's		
	a. have special diets.b. are common, as the rate of this genetic disorder is very high.							
	c. usually have ded. use medications		set of this disorder at age 35 or older e the disorder.	•				
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
68.	Huntington's diseas a. Uncontrollable b. Loss of intellec c. Personality char d. All of the above	muscle r tual func nge		symptor	ms?			
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
69.		nale unde crican. le of any		cell ane	emia:			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Conceptual		
70.	b. red blood cells toc. a recessive generation	ls that tal that expa e.	by ke on the shape of a sickle and clump and the blood vessels and increase the liver leading to jaundice and swolle	e oxygei	n supply	7.		
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
71.	The following most sickle-cell anemia: a. one in 5. b. one in 10. c. one in 20. d. one in 100.	accurate	ely represents the percentage of Afric	an Ame	ericans v	who are carriers of		
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
72.		gnitive s nia.	. She has a genetic disorder caused b kills caused by decreased oxygen su	•	_	• •		
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		

73. The following is TRUE of Tay-Sachs disease: a. it results in delayed blood clotting.

	b. it is characterizedc. it is caused by a dd. it is linked to the	domina		system	1.			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
74.		vish chil frican A opean A	American	Sachs di	sease?			
	ANS: A Conceptual	REF:	Chromosomal Abnormalities	OBJ:	4	DIF:		
75.	Which of the following a. An 8-year-old b. A 4-year-old c. A 2-year-old d. A 1-year-old	ng indiv	viduals is LEAST likely to have Tay-	Sachs d	lisease?			
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied		
76.	Tay-Sachs disease rea. death by approximate b. painful and swoll c. thick mucus that d. All of the above	mately len join						
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Conceptual		
77.	According to the Cystic Fibrosis Foundation, a. cystic fibrosis is the most common fatal hereditary disease among European Americans. b. about 30,000 Americans have the disorder. c. 1 in every 31 people is carriers of this illness. d. All of these are true about cystic fibrosis							
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual		
78.		pancrea ease.	ic disorder that is caused by a recessions and lungs. He has many respiratory					
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Applied		

79.	 Sex-linked diseases are more likely to afflict sons of female carriers because a. males inherit two X chromosomes from their mothers. b. males have only one X sex chromosome. c. sex-linked disorders are recessive in fathers. d. it is carried only on the Y chromosome. 						
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual	
80.		to afflic often in C frontal lo	t sons of female carriers than daughte Caucasians than other racial and ethni be of the brain		os		
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Conceptual	
81.	Color blindness is a. an enzyme diso b. a protein-based c. a sex-linked ab d. found only in fe	disorder normality					
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual	
82.		dependii	ly to occur in ng upon racial and ethnic background socioeconomic status.	l.			
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual	
83.	Which of the followa. Duchenne musob. Hemophiliac. Color blindnessd. Down syndrom	cular dysi	OT a sex-linked abnormality? crophy				
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Factual	
84.	Females are less lik a. have higher lev b. do not inherit re c. have an additio d. have higher lev	els of est ecessive g nal X chr	genes. comosome.	ecause	females		
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	4	DIF: Conceptual	

85.	a. after a woman is	pregnai is pregn e conce	•	appens		<u> </u>
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Conceptual
86.	•	abort was abort was about a bound about the about a bound about the about a bound a boun	nborn children. evelop a certain illness. n making procreation decisions.			
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
87.	professional who ask	s them of the state of the stat	r or not to try and conceive a child. To questions regarding their genetic herinetic abnormalities. This process is continuous conti	tage in		
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Applied
88.	The following person a. an African-Americ b. an Asian-Americ c. a female younger d. a female over the	rican fer an fema r than aş	ale. ge 20.	is:		
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
89.	b. fluid is tested froc. the father's sperr	m the " n is test	ne pregnant mother's spine. sac' containing the fetus. ed for genetic abnormalities. ed for genetic abnormalities.			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
90.		of ever ies. n.	niocentesis is that it can cause by 100 women who undergo the proceed fertile.	edure.		
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual

91.		age of 4		osomal	and/or	genetic
	ANS: D Conceptual	REF:	Chromosomal Abnormalities	OBJ:	5	DIF:
92.	The earliest detection a. amniocentesis. b. ultrasound. c. chorionic villus d. fetoscopy.		l abnormalities is possible with use o	of		
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
93.		uter men lity stud s samplir bility sar	ng			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Applied
94.	 Which of the following is TRUE regarding amniocentesis and CVS? a. The risks of amniocentesis are much higher than those of CVS b. Both are performed 14 to 16 weeks after conception c. Some practitioners are better at carrying out these procedures than others d. Both involve the examination of villi from the membrane that envelops the amniotic sac and fetus 					
	ANS: C	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Conceptual
95.	An ultrasound a. uses x-ray photo b. can be heard by c. yields a picture d. bounces sound	the hum called a	CT-scan.			
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
96.	A sonogram is prod a. ultrasound. b. fetoscopy. c. chorionic villus d. amniocentesis.		-			
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual

97.	Ultrasound can be a. Klinefelter syr b. cystic fibrosis c. PKU. d. position of the	ndrome.	rtect			
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
98.		enerate a pi	and an intrauterine transfusion is ne ecture of the fetus to determine feta	•		•
	ANS: A	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Applied
99.	The procedure tha a. amniocentesis b. ultrasound. c. chorionic villu d. alpha-fetoprot	is sampling				
	ANS: D	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
100.	a. Genetic couns b. Alpha-fetopro c. Ultrasound d. Rh disease tes	eling tein assay	etect neural tube defects such as spi	ina bifida		
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
101.	Alpha-fetoprotein a. assess sex chro b. detect neural t c. assess degree d. measure insuli	omosome a tube defect of mental i	abnormalities. s. retardation.			
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Factual
102.	a. has a neural tu	ibe defects ral tube de ed disordei arly.	fects and this would be examined b	y amnioc	entesis (or ultrasound.
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Applied

103.	Of the following, the accurate statement is a. there is no risk associated with fetal testing. b. although there is some risk with fetal testing, it is sometimes necessary. c. because of risk, fetal testing should not be done. d. the risk in fetal testing is to the mother, not the fetus.						
	ANS: B	REF:	Chromosomal Abnormalities	OBJ:	5	DIF: Conceptual	
104.	a. reaction range.b. phenotype.c. genotype.		in expression given our unique envir	onment	s. This i	s referred to as	
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual	
105.			ity traits, such as her activity and soci arents are referred to as our	ability l	levels, fi	rom her parents.	
	ANS: C	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied	
106.	•		ndency to be of very high intelligence ual set of traits that we exhibit, such a		_		
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied	
107.	However, if healthy	food be hat is to hat is hat in his had in his had hat in his had	ess to healthy food, he may not grow comes available, his body may "snap he term used to describe this process?	back in			
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied	
108.	Which of the followi a. Learning to sit up b. Learning to craw c. Learning to spea d. Intelligence	p 'l	ESS highly canalized?				
	ANS: D	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual	

109.	 Developmental psychologist Sandra Scarr described three types of correlations between genetic and environmental influences. These are passive correlation, active correlation, and a. ongoing correlation. b. evocative correlation. c. restrictive correlation. d. inherent correlation. 					
	ANS: B	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied
110.	such, she provides a classes, and encourage	healthy ges her	nner. She believes in the importance o diet for her two-year-old daughter, er daughter's outdoor physical activities es this BEST represent?	nrolls h	er in tod	ldler gymnastic
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied
111.		leave h ion doe	et and rarely seeks out other children to im alone to play and spend time by his this best represent? Heredity and the Environment		Which	
112.	she decides to join th	e march	man. She has always enjoyed playing ning band at her school as well as take ironment correlations does this best relations does this best relations does this best relations.	e a class	s in mus t?	
113.	-	g, dance vironme	e, and act. Due to this, he decided to joints that allow us to develop inherited			_
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied

114.	a. They share aboutb. They share recec. They share dom	ut 50% o ssive gen ninant ge	•	dren?		
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual
115.	a. DZ twins wouldb. all people in a gc. cousins would b	d be more given fan be more s	y given physical trait or behavior pate similar on the trait than MZ twins. aily would express the trait similarly. Similar on the trait than siblings. similar on the trait than cousins.	tern, the	en you v	vould expect
	ANS: D	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual
116.	The following twin a. dizygotic of eith b. monozygotic. c. dizygotic males d. monozygotic, b	ner sex.	ald physically resemble each other the	e most:		
	ANS: B	REF:	Heredity and the Environment	OBJ:	6	DIF: Factual
117.	 7. In comparison to dizygotic (DZ) twins, monozygotic (MZ) twins are a. less likely to look alike or be of similar height. b. more likely to be similar on physical characteristics, such as blood pressure and brain wave patterns. c. less likely to share the same psychological disorders. d. more likely to differ on levels of happiness and sociability. 					
	ANS: B	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied
118.	The following could influence behavioral similarity in monozygotic twins: a. parents and others who treat them alike.b. the degree of genetic similarity they share.c. whether the twins are male or female.d. none of these would influence behavioral similarity.					
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual
119.	Dizygotic twins are a. schizophrenia b. depression c. autism d. None of these	MORE	likely to inherit than	monoz	ygotic t	wins.
	ANS: D	REF:	Heredity and the Environment	OBJ:	6	DIF: Factual

120.	families. Kia gr would expect K a. share the sa b. be less alike c. be identical	ew up in Los ia and Mia to me degree of e, genetically in genetics,	ic twins. At birth, they were separated to Angeles. Mia grew up in New Your f genetic similarity as twins reared, than dizygotic twins reared together behaviors and preferences.	ork City. God together.	iven t	he research, you
	ANS: A	REF:	Heredity and the Environment	OBJ:	6	DIF: Applied
121.	to the adoptive a. the adoptive b. heredity is a c. environmen	parents, we cee parents have solely responding it is solely re	cimilar on a particular characterist can conclude that the tried very hard to raise the child sible for who we become. sponsible for who we become. the development of that particular	d as their ov	vn.	ogical parents than
	ANS: D	REF:	Heredity and the Environment	OBJ:	6	DIF: Conceptual
122.	a. enough ova	to be fertile y only develo ,000 ova.	Temale will contain for 10 years. op during puberty.			
	ANS: C	REF:	Conception	OBJ:	7	DIF: Factual
123.	a. a female isb. the unfertilicc. the fertilized. the fertilize	more likely t zed egg is di d egg underg d egg underg	goes meiosis.			
	ANS: B	REF:	Conception	OBJ:	7	DIF: Factual
124.	b. is significantc. contains tw	chromosome otly larger that o X chromos	es. an the egg cell.			
	ANS: A	REF:	Conception	OBJ:	7	DIF: Factual
125.	b. contains twc. does not de	o Y chromos termine the s	an the egg cell. somes. ex of the developing child. pes of cells in the body.			

OBJ: 7

DIF: Factual

REF: Conception

ANS: D

126.	a. fb. rc. r	ewer males are conore m	onceive onceive onceive	oout male conception: ed, but more survive to birth. ed and more survive to birth. ed and more are spontaneously aborte of males and females are conceived.	d.		
	ANS	: C	REF:	Conception	OBJ:	7	DIF: Applied
127.	singla. a b. 2 c. i	e ejaculate: around 1,000. 200 to 400 million t depends upon the	n. he size	of the ejaculate. 's progesterone levels.	ny sper	m cells	are contained in a
	ANS	: B	REF:	Conception	OBJ:	7	DIF: Factual
128.	preve a. (b. V c. (_	om tra	ever arrive in the vicinity of an ovum. veling the entire distance to the egg? e cervix	Which	of the fo	-
	ANS	: D	REF:	Conception	OBJ:	7	DIF: Factual
129.	a. a b. c c. a		atinous / a gela			ovarian	follicle.
	ANS	: A	REF:	Conception	OBJ:	7	DIF: Factual
130.	b. f c. a d. a	ravel at random i ind ovum as a mare attracted to over the attracted to over attracted to over	atter of a by thata a by a	ne odor of a chemical they secrete. sound wave they emit.			
	ANS	: C	REF:	Conception	OBJ:	7	DIF: Factual
131.	 a. the egg cell is released from the ovary. b. the sperm cell is released from the testis. c. the chromosomes from the egg cell align with those from the sperm cell. d. the chromosomes combine to form 23 new pairs with a unique set of genetic instructions 						instructions.
	ANS	: D	REF:	Conception	OBJ:	7	DIF: Factual

132.	In American couples a. one in 6 or 7 cou b. one in 15 couple c. it depends upon d. it depends upon	iples. es. ethnicit				
	ANS: A	REF:	Infertility	OBJ:	8	DIF: Factual
133.	The following can ca a. excess protein in b. lack of exercise. c. sexually transmi d. excessive masture	the die	ections (STIs).			
	ANS: C	REF:	Infertility	OBJ:	8	DIF: Factual
134.	The sperm's ability to a. involution. b. propulsion. c. evolution. d. motility.	to move	is called			
	ANS: D	REF:	Infertility	OBJ:	8	DIF: Factual
135.	The following can ca a. obstruction of th b. irregular ovulations. c. endometriosis. d. All of these	e repro				
	ANS: D	REF:	Infertility	OBJ:	8	DIF: Factual
136.	a. irregular ovulationb. endometriosis.	on or la assagew	rays through which the ovum must pa	ass.		
	ANS: A	REF:	Infertility	OBJ:	8	DIF: Factual
137.	endometriosis and tha. irregular ovulationb. chronic disease,c. endometrial tissu	nat this is on or la such as ue that lay drugs	ck of ovulation.		ity.	lls her that she has DIF: Applied
	71110. C	IXLI'.	inicitiity	ODJ.	U	Dir. Applied

138.	Which of the following of ovulation? a. IVF b. Artificial inseming. Donor IVF d. Surrogacy		eribes the process by which sperm is in	njected	into the	uterus at the time
	ANS: B	REF:	Infertility	OBJ:	8	DIF: Factual
139.		Jill's u this be nation	her own. An ovum is harvested from aterus where it becomes implanted and st represent?			
	ANS: C	REF:	Infertility	OBJ:	8	DIF: Applied
140.	Meghan is carrying a a. sperm donor. b. adoptive parent. c. surrogate. d. None of the above	·	fertilized ova to term for another wor	nan. M	eghan is	a(n)
	ANS: C	REF:	Infertility	OBJ:	8	DIF: Factual
141.	It is estimated that the many more boys than a. Better genetic cob. An increase in the c. Higher rates of a d. Selective abortion	n girls i unselin e use o dopting	g f fertility drugs g boys than girls	tely 12	0 to 100	. Why are there so
	ANS: D	REF:	Infertility	OBJ:	8	DIF: Factual

MATCHING

Match	the	$f_{\alpha}II$	lowing.
mulch	ine	jou	owing.

- a. takes the form of a double helix
- b. person who carries and transmits characteristics but does not express them
- c. correlation between child's genetic endowment and responses elicited from others
- d. the genetic material received from parents n.
- e. caused by a recessive gene
- f. polygenically determined
- g. female sex hormone
- h. neural tube defect
- 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. samples the membrane enveloping amniotic sac and fetus
- m. associated with the 21st pair of chromosomes
- how genetic material manifests itself in characteristics
- o. twins produced from two eggs
- p. XXY sex chromosomal pattern
- g. determined by the father
- r. both alleles for a trait differ
- s. caused by a dominant gene
- t. self-propulsion

- Spinal bifida
 Monozygotic
- 2. Wonozygotic
- 3. Deoxyribonucleic acid (DNA)
- 4. Meiosis
- 5. Phenotype
- 6. Carrier7. PKU
- 8. Down syndrome
- 9. Huntington's disease
- 10. Intelligence
- 11. Dizygotic
- 12. Evocative genotype-environmental correlation
- 13. Genotype
- 14. Heterozygous
- 15. Estrogen
- 16. Gender of child
- 17. Motility
- 18. Chorionic villus sampling
- 19. Conception
- 20. Klinefelter's syndrome

- 1. ANS: H
- 2. ANS: I
- 3. ANS: A
- 4. ANS: J
- 5. ANS: N
- 6. ANS: B
- 7. ANS: E 8. ANS: M
- 9. ANS: S
- 10. ANS: F
- 11. ANS: O
- 12. ANS: C
- 13. ANS: D
- 14. ANS: R
- 15. ANS: G
- 16. ANS: O
- 17. ANS: T
- 18. ANS: L
- 19. ANS: K
- 20. ANS: P

TRUE/FALSE

1.	Polygenic traits are transmitted by a single pair of genes.						
	ANS: F	REF:	The Influence of Heredity	OBJ:	1		
2.	Sex chromosomes utilize meiosis to divide.						
	ANS: T	REF:	The Influence of Heredity	OBJ:	2		
3.	The typical sex chromosome pattern for females is XY.						
	ANS: T	REF:	The Influence of Heredity	OBJ:	3		
4.	Monozygotic twins are conceived from separate egg cells.						
	ANS: F	REF:	The influence of Heredity	OBJ:	3		
5.	"Carriers" for traits have two recessive genes for those traits.						
	ANS: F	REF:	Chromosomal Abnormalities	OBJ:	4		
6.	Klinefelter's syndrome affects females and males equally.						
	ANS: F	REF:	Chromosomal Abnormalities	OBJ:	4		
7.	PKU, which causes intellectual disability, can be controlled by diet.						
	ANS: T	REF:	Chromosomal Abnormalities	OBJ:	4		
8.	Ultrasound is used in amniocentesis and CVS.						
	ANS: T	REF:	Chromosomal Abnormalities	OBJ:	5		
9.	Our phenotype is influenced by the environment.						
	ANS: T	REF:	Heredity and the Environment	OBJ:	6		
10.	Parents and children have 25% overlap in genes.						
	ANS: F	REF:	Heredity and the Environment	OBJ:	6		

11.	Male fetuses have a lower rate of spontaneous abortion than females.						
	ANS: F	REF:	Conception	OBJ:	7		
12.	2. The term "infertility" is applied to couples that have failed to conceive for a year or more.						
	ANS: T	REF:	Infertility	OBJ:	8		
13.	Pelvic inflammatory	disease	(PID) can result from a variety of ba	cterial o	or viral infections.		
	ANS: T	REF:	Infertility	OBJ:	8		
14.	Preimplantation gene	tic diag	gnosis is a reliable method for selecting	ng the se	ex of a child.		
	ANS: T	REF:	Infertility	OBJ:	8		
15.	5. Mothers who give up their children for adoption often experience guilt, feelings of loss, and curios about how their child is developing and adjusting.						
	ANS: T	REF:	Infertility	OBJ:	8		

SHORT ANSWER

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

ANS:

Meiosis is also referred to as "reduction division." This means that 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, 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, these cells, when they divide, are identical to the cells that divided to form them. Cloning results from mitosis. Because the newly formed cells are "replications" of the preceding cell, there is no genetic variability.

OBJ: 2

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

ANS:

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

OBJ: 3

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Chapter 2

3. What are chromosomal disorders?

ANS:

Chromosomal disorders occur when children do not have the correct pairings or complement of 46 chromosomes. Chromosomal abnormalities are more common in children of older mothers and fathers. Down syndrome, for example, is caused by having an extra chromosome on the 21st pair, resulting in 47 chromosomes. There are also disorders linked to the sex chromosomes. For example, "supermales" have an extra Y chromosome on the 23rd pair. Males with an extra X chromosome are said to have Klinefelter's syndrome, characterized by underdeveloped male secondary sex characteristics and mild mental retardation. A female with a single X chromosome is said to have Turner's syndrome, characterized by underdevelopment of female secondary sex characteristics and problems in mathematics and visual-spatial skills.

OBJ: 4

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

ANS:

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 things can be minimized and/or avoided. If the person is really worried, she may want to consider prenatal testing to see if there are serious disorders she might want to be aware of. Additionally, however, it should be acknowledged that genetic screening procedures do 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 of having a child with a disease or a disorder.

OBJ: 5

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

ANS:

Genotype refers to the genetic material that is received from one's parents. Characteristics such as blood type and eye color, 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.

OBJ: 6