Modern Blood Banking and Transfusion Practices 6th Edition Harmening Test Bank

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Chapter 2. Basic Genetics

_	Choice c choice that best completes the statement or ans	swer	s the question.		
 1.	1. When 1,000 donors were tested, 75% were positive for C and 25% were negative for C; the gene frequence is:				
	a. 10. b. 1.		0.5. 25.		
 2.	All of the following may cause an alteration in	DN	A, except:		
	a. ultraviolet light.b. alkylating agents.		antibodies. enzymes.		
 3.	How is it genetically possible for a child to typ				
	a. Both parents are Dd.b. Both parents are DD.		Mom is DD and Dad is Dd. Sibling is Rh-positive.		
	b. Both parents are DD.	u.	Sibiling is Kii-positive.		
 4.	All of the following are included in transcription	on e.	xcept:		
	a. mRNA terminates at the 5' end.b. RNA polymerase II binds to a promoter.				
	c. it proceeds from the 3' end to the 5' end.				
	d. the 5' end is capped with a methyl residue.				
 5.	Which of the following best describes the struc	cture	e of human chromosomes?		
	a. Linear strands of DNA wound around history				
	b. Linear strands of RNA wrapped around hisc. Tertiary structure of DNA wound around h				
	c. Tertiary structure of DNA wound around fd. Quaternary structure of DNA wound around				
 6.	In Mendel's law of separation, the first-filial generation is:				
	a. recessive.		heterozygous.		
	b. homozygous.	d.	autologous.		
 7.	A father carries the Xg ^a trait and passes it on to all of his daughters but none of his sons. What type of inheritance does this represent?				
	a. Autosomal dominant	c.	X-linked recessive		
	b. X-linked dominant	d.	Autosomal recessive		
 8.	Methods to isolate intact DNA in order for it to	o be	studied include all of the following <i>except</i> :		
	a. pH changes.		detergent lysis.		
	b. enzyme activation.	d.	heat treatment.		
 9.	Point mutations include which of the following	g?			
	a. Substitutions				
	b. Insertionsc. Deletions				
	d. Substitutions, insertions, and deletions				
10.	Which of the following best describes the proc	ess	of mitosis?		
	a. Cell division by which only one-half of the				
	parent cell				

	b. Cell division of germ cells by which two succe that contain half the number of chromosomesc. Cell division that produces two daughter cells the parentd. Cell division that produces four daughter cell	of somatic cells having the same number of chromosomes as
11	 All of the following processes occur in replication the two DNA strands separate via helicase. DNA polymerase acts on the 5' to 3' parent st duplicate strand. DNA polymerase acts on the 3' to 5' parent st duplicate strand. replication of the 3' to 5' parent strand is initiate the parent strand. 	rand to produce an anticomplementary
12	*	able of reverting back to the original phenotype? Recombination Insertion
13	 3. In the MN blood group system, a person who inhomatigens on the RBCs. Which of the following is a. M is dominant to N. b. N is dominant to M. c. M an N are codominant alleles. d. M and N are located on the same chromosom 	
14	<u> </u>	ctable product is called: an allele. recessive.
15	a. Rh	nantly inherited blood group genes? Lewis ABO
16		, it refers to the individual's: phenotype. haplotype.
17	direction. a. parallel c.	s in a 5' to 3' direction, and the other runs in a 3' to 5' somatic zigzag
18	*	ling? Metaphase Anaphase
19	9. How many chromosomes do somatic cells of hum a. 46 c b. 50 d	23
20		

	b. 23 d.	92
 21.	, , ,	2pq
 22.	In which of the following circumstances will Hardy a. Mutation c. b. Genetic drift d.	Y-Weinberg's principle fail? Non-random mating All the above
 23.	a. Glycine c.	o tRNA? Methionine Lysine
 24.	 What is meant by the term <i>autosomal</i>? a. Trait is not carried on the sex chromosomes b. Trait is carried on sex chromosomes c. Trait is not expressed in the parents d. Organism possesses different alleles for a given 	n characteristic
 25.	 Which of the following best describes classical gen a. DNA alteration that is caused by a physical or of b. Transmission of characteristics from parents to c. Possessing a pair of identical alleles d. The synthesis of RNA from DNA requiring RN 	chemical agent offspring
 26.	a. RNA usually exists as one strand c.	RNA incorporates uracil All of the above
 27.	carried the recessive allele e, what would the total pa. 64% c.	om population carried the dominant allele E and 20% percentage be for the recessive trait ee? 16% 0.4%
 28.		codon. template.
 29.	a. 23 pairs c.	y chromosomes? 23 chromosomes 46 chromosomes
 30.	 How do restriction endonucleases function? a. Disrupt hydrogen bonding in DNA structure b. Promote digestion of RNA c. Cut DNA into smaller fragments d. Terminate translation of mRNA 	
 31.	a. adenine. c.	cytosine. uracil.

32	A woman with blood group A marries a man with blood group O. Their firstborn child has blood group O. The mother's most probable genotype is:				
	1 0 11	AB			
		AO			
33	3. A structural alteration of DNA in an organism that	is caused by a physical or chemical agent is called:			
	<u>.</u>	mutation.			
	b. translation. d.	cloning.			
34	1 & 3	ate?			
	a. Consanguineous mating c.				
	b. Offspring d.	Deceased sibling			
35					
	a. Substance capable of catalyzing a reaction				
	b. Sequence of three bases in a strand of DNA	mmy a masamhinant DNA malacula into a			
	c. Extrachromosomal genetic element that can can host bacterial cell	ary a recombinant DNA molecule into a			
	d. Substance that can carry an electric current in	solution			
26					
36		Mating must occur randomly			
		All of the above			
27					
37	ε				
	1	alleles. recessive.			
	b. traits. d.	recessive.			
38		by of the gene and the other chromosome has that gene			
	deleted or absent is referred to as:				
	• •	hemizygous.			
	b. heterozygous. d.	recessive.			
39		<u>-</u>			
		Dominant			
	b. Homozygous d.	Autosomal			
40	\mathcal{E}	•			
	a. the gene is transmitted through generations int				
	b. a pair of genes is always found in the same gar				
	c. different pairs of genes are assorted independently of each other.				
	d. a pair of genes is rarely found in the same gam	nete.			

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Chapter 2. Basic Genetics Answer Section

MULTIPLE CHOICE

1.	ANS:	С	PTS:	1	KEY:	Taxonomy Level: 3
2.	ANS:	D	PTS:	1		Taxonomy Level: 1
3.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 2
4.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 2
5.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 1
6.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 2
7.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 2
8.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 2
9.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 1
10.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 2
11.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 2
12.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 1
13.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 2
14.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 1
15.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 1
16.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 2
17.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 2
18.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 1
19.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 1
20.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
21.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 1
22.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 2
23.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
24.	ANS:	A	PTS:	1	KEY:	Taxonomy Level: 1
25.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 1
26.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 1
27.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 3
28.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
29.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
30.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
31.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 1
32.	ANS:	D	PTS:	1	KEY:	Taxonomy Level: 2
33.	ANS:	C	PTS:	1	KEY:	Taxonomy Level: 1
34.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 2
35.			PTS:	1		Taxonomy Level: 1
36.	ANS:		PTS:	1		Taxonomy Level: 2
37.			PTS:	1		Taxonomy Level: 1
38.			PTS:	1		Taxonomy Level: 1
39.	ANS:		PTS:	1		Taxonomy Level: 1
40.	ANS:	В	PTS:	1	KEY:	Taxonomy Level: 2