Chapter 2 – Testbank Multiple-Choice Questions

	
1.	DNA is defined as
	a. Deoxyribonucleic acid
	b. Deoxyribonucleic alkali
	c. Digoxin neural assessment
	d. Diploid nucleotide analysis
An	nswer: a
2	DNA is made un of mullestides. How many bosse de mullestides have?
۷.	DNA is made up of nucleotides. How many bases do nucleotides have? a. Two
	b. Three c. Four
۸	d. Five
AII	iswer. C
3.	Which term refers to the fact that human cells, except for sexual cells, contain two sets of
	chromosomes?
	a. Diploid
	b. Karyotype
	c. Mitosis
	d. Polymerase
An	aswer: a
4.	What is the term for sexual cell division?
	a. Meiosis
	b. Mitosis
	c. Mutation
	d. Replication
An	nswer: a
5	The say calls either ages or snown and in hymone machine that they contain
٥.	The sex cells, either eggs or sperm, are in humans, meaning that they contain
	one copy of each chromosome rather than two.
	a. complementary
	b. haploid
	c. homologous
۸	d. linear
An	nswer: b
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- 6. Most common blood group alleles result from which type of DNA modification?
 - a. Chromosome crossover
 - b. Gene deletion
 - c. Multiple nucleotide transposition
 - d. Single nucleotide polymorphism

Answer: d

- 7. RNA is defined as
 - a. Recessive nucleotide analysis
 - b. Red blood cell nuclear antigen
 - c. Ribonucleic acid
 - d. Ribonucleic alkali

Answer: c

- 8. What is the abbreviation for the amino acid glutamine?
 - a. Gln
 - b. Glu
 - c. Gly
 - d. Gtm

Answer: a

- 9. What is the function of ribosomes?
 - a. Produce complementary strand of mRNA
 - b. Transcribe DNA into mRNA
 - c. Translate mRNA into protein
 - d. Unwind DNA

Answer: c

- 10. The site of the gene on the chromosome is the
 - a. allele
 - b. codon
 - c. locus
 - d. null

Answer: c

11. When alleles at a given locus on both chromosomes are identical they are

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- a. antithetical
- b. indecipherable
- c. heterozygous
- d. homozygous

Answer: d

- 12. Which of the following is the method used for predicting genotype frequencies of offspring?
 - a. Combination grouping
 - b. Dominant grouping
 - c. Dosage effect
 - d. Punnett square

Answer: d

- 13. Which statement is true?
 - a. Blood group antigen molecules are produced as a result of alleles at a nonspecific gene locus.
 - b. Carbohydrate blood group antigens are produced directly by the allele.
 - c. Enzymes are proteins that catalyze a chemical reaction.
 - d. Red blood cell antigens cannot be a structural part of the red blood cell membrane.

Answer: c

- 14. Which type of gene expresses a trait that does not allow the expression of a trait encoded by an alternative allele at the same locus on the other chromosome?
 - a. Aggressive
 - b. Co-dominant
 - c. Dominant
 - d. Recessive

Answer: c

- 15. In a pedigree, an X-linked trait will exhibit a recognizable pattern of inheritance because
 - a. females carry one X and one Y chromosome and males carry one X and one Y chromosome
 - b. females carry two X chromosomes and males carry one X and one Y chromosome
 - c. females carry two X chromosomes and males carry two Y chromosomes
 - d. females carry two Y chromosomes and males carry one X and one Y chromosome

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Answer: b

- 16. What term is used to describe an allele present on the same chromosome?
 - a. Amorph
 - b. Cis
 - c. Genotype
 - d. Karyotype

Answer: b

- 17. The tendency for genes that are close together on the same chromosome to be inherited as a unit is called
 - a. codonage
 - b. linkage
 - c. morphing
 - d. replicating

Answer: b

- 18. All of the following statements are true *except*
 - a. The null phenotype is the inheritance of genes that code for no expression of the usual blood group antigens for that system.
 - b. An amorphic gene expresses a phenotype and can be called the silent gene.
 - c. Interaction among alleles or the products of different genes may modify the expression of a trait.
 - d. The HLA genes are linked and are inherited as haplotypes.

Answer: b

- 19. Which term refers to a genetic system that expresses two or more phenotypes?
 - a. Amorphic
 - b. Genotype
 - c. Phenotype
 - d. Polymorphic

Answer: d

- 20. Which of the following resulted in the determination of over 99% of the nucleotide sequences in the human genome?
 - a. DNA microarrays
 - b. Hardy-Weinberg equation

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- c. Human Genome Project
- d. Knowledge of PCR

Answer: c

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