http://testbanklive.com/download/essence-of-anthropology-4th-edition-haviland-test-bank/

True / False

1. Evolution is the central organizing principle of the biological sciences.

a. True	
b. False	
ANSWER:	True
REFERENCES:	31
OTHER:	Factual
NOTES:	Pickup

2. Linnaeus's classificatory system reflected a new understanding of life on earth at that time.

a. True b. False ANSWER: True REFERENCES: 32 OTHER: Conceptual

NOTES: New

3. Humans are primates.

a. True	
b. False	
ANSWER:	True
REFERENCES:	32
OTHER:	Factual
NOTES:	Pickup

4. The "system of nature" is an approach to classify all of animate and inanimate nature.

False
32
Factual
Pickup

5. Taxonomy is an ancient form of classification created by Linnaeus that is no longer used today.

•	
a. True	
b. False	
ANSWER:	False
REFERENCES:	32
OTHER:	Factual
NOTES:	Pickup

6. A bat's wing is analogous to a human hand.

a. True

b. False
ANSWER: False

REFERENCES:32OTHER:ConceptualNOTES:Pickup

7. Uniformitarianism is a more recent theory than catastrophism.

a. True

b. False ANSWER: True REFERENCES: 33 OTHER: Factual NOTES: New

8. Even prior to Darwin's publication, many European naturalists accepted the idea that life had evolved.

a. True

b. False ANSWER: True REFERENCES: 33 OTHER: Conceptual NOTES: Pickup

9. Mendel published his findings in a respectable scientific journal, but no one understood their significance until after his death.

a. True

b. False ANSWER: True REFERENCES: 35 OTHER: Conceptual

NOTES: Pickup

10. Genes are particulate, meaning that they are separate structures rather than portions of DNA.

a. True b. False ANSWER: False REFERENCES: 36 OTHER: Conceptual

NOTES: Pickup

11. Darwin could not initially understand how variation occurred in living organisms.

a. True b. False ANSWER: True REFERENCES: 35 OTHER: Conceptual NOTES: New

12. DNA provides the instruction for the thousands of proteins that keep us healthy every day.

a. True	
b. False	
ANSWER:	True
REFERENCES:	36
OTHER:	Factual
NOTES:	Pickup
13. The complet	e sequence of human DNA is called the genome.
a. True	
b. False	
ANSWER:	True
REFERENCES:	37
OTHER:	Factual
NOTES:	Pickup
a. True	cells merge in meiosis, the result is a cell with 46 pairs of chromosomes.
b. False	F -1
ANSWER:	False
REFERENCES:	
OTHER: NOTES:	Factual Pickup
15 Testing for [DNA is the best way to determine those who form part of an individual's family.
a. True	SIVA is the best way to determine those who form part of an individual's family.
b. False	
ANSWER:	False
REFERENCES:	41
OTHER:	Conceptual
NOTES:	New
16. When two al a. True b. False	leles on the same gene are not identical, they are called heterozygous.
	Trave
ANSWER:	True
REFERENCES:	
OTHER:	Factual
NOTES:	New
a. True	for disease cures, scientists often predict an individual's genotype.
b. False	
ANSWER:	False
REFERENCES:	
OTUED	Concentual
OTHER:	Conceptual

NOTES:

Pickup

18. The only source of new genetic material is random drift. a. True b. False ANSWER: False REFERENCES: 44 Factual OTHER: NOTES: Pickup 19. Founder effects are a kind of genetic drift. a. True b. False ANSWER: True **REFERENCES:** 45 Conceptual **OTHER:** NOTES: Pickup 20. The existence of Homo sapiens as an interbreeding species is due to gene flow. a. True b. False ANSWER: True REFERENCES: 46 OTHER: Factual NOTES: Pickup 21. Ultimately, all natural selection is measured in terms of reproductive success. a. True b. False ANSWER: True **REFERENCES:** 46 **OTHER:** Conceptual NOTES: New 22. In sickle-cell anemia, the individual does not produce any red blood cells. a. True b. False ANSWER: False REFERENCES: 47 OTHER: Factual NOTES: New

23. Cultural processes complicate studies of biological adaptation.

a. True b. False ANSWER: True REFERENCES: 48 OTHER: Conceptual NOTES: New

24. Speciation always occurs quite rapidly.

a. True b. False ANSWER: False REFERENCES: 49 OTHER: Factual NOTES: New

25. Cladogenesis is a sustained directional shift in a population's gene pool.

a. True b. False ANSWER: False REFERENCES: 49 OTHER: Factual NOTES: New

Multiple Choice

26. How do anthropologists classify the Nez Perce story about Coyote and Wishpoosh?

- a. apocalyptic myth
- b. salvation myth
- c. children's myth
- d. creation myth

ANSWER: d

REFERENCES: 31

- OTHER: Conceptual
- *NOTES:* Pickup

27. Which of the following describes the primary difference between creation stories and evolution?

a. Creation stories are particular to cultures, and evolution is bound by hypotheses and scientific language.

- b. Creation stories are cyclical in nature, and evolution is a linear theory.
- c. Evolution explains how things change, and creation stories do not change.

d. Evolution is a Western theory, and creation stories are not found in the West.

ANSWER:aREFERENCES:31OTHER:ConceptualNOTES:New

28. Evolution can be described as:

- a. an anti-creationist account of the origin of life
- b. the foundation of culture in contemporary society
- c. the major organizing principle of the biological sciences
- d. the major organizing principle of the social sciences

ANSWER:cREFERENCES:31OTHER:FactualNOTES:Pickup

29. All of the following are true of evolution except:

a. It provides an explanation for the diversity of life.

b. It emphasizes human uniqueness and human origin.

c. It utilizes hypotheses as a way of testing.

d. It uses consistent scientific language.

ANSWER:bREFERENCES:31OTHER:ConceptualNOTES:New

30. Which of the following statements is false?

a. Evolution explains diversity through scientific language using hypotheses.

b. Evolution explains diversity through scientific language using theories.

c. Evolution can explain diversity, and creation myths cannot.

d. Creation myths and evolutionary accounts do not differ in any substantial way.

ANSWER:dREFERENCES:31OTHER:ConceptualNOTES:Modify

31. Which scientist developed the Systema Naturae?

a. Aristotle

b. Carolus Linnaeus

c. Jean-Baptiste Lamarck

d. Charles Darwin

ANSWER: b

REFERENCES: 32 OTHER: Factual

NOTES:	Pickup
NOTES:	Pickup

32. Which of the following is the smallest working unit in biological classification?

a. phylum	
b. mammal	
c. genus	
d. species	
ANSWER:	d
REFERENCES:	32
OTHER:	Factual
NOTES:	New

33. Linnaeus noted the similarities among humans, monkeys, and apes and classified them as:

a. hominids b. primates c. anthropoids d. apes ANSWER: b REFERENCES: 32 OTHER: Factual NOTES: New

34. Mammals have all of the following characteristics except:

- a. They have body hair.
- b. They nurse their young.
- c. They do not give birth to live young.
- d. They include the primates. с

ANSWER:

REFERENCES: 32 OTHER: Factual NOTES: New

35. A reproductively isolated population or group capable of interbreeding to produce fertile offspring is a:

a. genus

- b. category
- c. family
- d. species

ANSWER: d

REFERENCES: 32

OTHER: Factual NOTES: Pickup

36. How would you best describe a genus?

a. a group of like species

- b. a subdivision of species
- c. a subspecies

d. archaic forms of species a

ANSWER:

REFERENCES: 32

OTHER: Conceptual

NOTES: Pickup

37. Linnaeus based his classificatory system on each of the following except:

a. sequence of bodily growth

b. body structure

c. body function

d. body size

ANSWER: d

REFERENCES: 32

OTHER:ConceptualNOTES:New

38. Homo describes a human:

a. order b. homology c. genus d. species ANSWER: c REFERENCES: 32 OTHER: Factual NOTES: Pickup

39. The comparison of the anatomical structures of wings on a bat to the wings on a butterfly is an example of:

a. homology

b. taxonomy

c. analogy

d. phylogeny

ANSWER: c

REFERENCES: 32

OTHER: Conceptual NOTES: Pickup

40. The comparison of the anatomical structures of a human arm to the wing of a bat is an example of:

a. homology b. taxonomy c. analogy d. phylogeny ANSWER: a REFERENCES: 32 OTHER: Conceptual NOTES: Pickup

41. Invoking natural events, such as the great flood in the Book of Genesis, to account for species disappearance is an example of:

a. exploitation

b. system of nature

c. Great Chain of Being

d. catastrophism

ANSWER:dREFERENCES:33OTHER:ConceptualNOTES:Pickup

42. The theory that maintains that although some changes in the earth's surface are immediately observable and caused by erosion and other natural processes, other changes are caused by gradual processes over extremely long periods of time is

called:

- a. natural selection
- b. catastrophism
- c. linearism

d. uniformitarianism

ANSWER:dREFERENCES:33OTHER:FactualNOTES:New

43. Of the following, which is the widest (most broad and inclusive) taxonomic category?

- a. family
- b. order
- c. phylum

d. species

ANSWER:

REFERENCES: 33

OTHER: Factual

с

NOTES: Modify

44. Darwin's theory was known as the theory of:

- a. natural selection
- b. natural variation
- c. animal evolution
- d. circumnavigation

ANSWER:aREFERENCES:34OTHER:FactualNOTES:Pickup

45. Who proposed that animal populations remained stable over time because of the high proportion of animal offspring not surviving to maturity?

- a. Gregor Mendel
- b. Charles Darwin
- c. Thomas Malthus
- d. Charles Lyell

ANSWER:cREFERENCES:34OTHER:FactualNOTES:Pickup

46. Whose research developed the basic laws of heredity?

- a. Gregor Mendel
- b. Charles Lyell
- c. Thomas Malthus
- d. Charles Darwin

ANSWER:aREFERENCES:35OTHER:FactualNOTES:Modify

47. Today, Darwin's evolutionary theory is supported by data from all of the following except:

a. population genetics b. heredity c. molecular genetics d. protogenetics ANSWER: d REFERENCES: 35 OTHER: Conceptual

NOTES: Modify

48. What was scientific about Gregor Mendel's approach to gardening?

a. He was a scientist and worked to create commercial plants.

b. He took systematic notes and was able to identify patterns of heredity.

c. He bred garden plants to obtain higher yields.

d. He worked to breed garden plants to obtain better varieties.

ANSWER:bREFERENCES:35OTHER:ConceptualNOTES:Modify

49. The principle that variants of genes for a particular trait retain their separate identities through the generations is called:

a. natural selection

b. law of segregation

c. law of heredity

d. law of independent assortment

ANSWER: b

REFERENCES:	36
OTHER:	Factual
NOTES:	Pickup

50. A portion of the DNA molecule containing a sequence of base pairs that encodes a particular protein is known as a:

a. gene

b. allele

c. double helix

d. chromosome

ANSWER: a

REFERENCES: 36

OTHER: Factual

NOTES: Pickup

- 51. Mendel discovered that inheritance was particulate, not:
 - a. blended
 - b. separated
 - c. molded
 - d. selected

ANSWER: a

REFERENCES: 36

OTHER:FactualNOTES:Pickup

52. Alleles are:

a. the cell nucleus

b. structures that carry specific proteins

c. alternate forms of a single gene

d. pieces of DNA

ANSWER: c

REFERENCES: 36

- OTHER: Factual
- *NOTES:* Pickup

53. Sex cell division is called:

- a. independent assortment
- b. segregation
- c. meiosis
- d. mitosis

ANSWER: c

REFERENCES: 40 *OTHER:* Factual

NOTES: Pickup

54. Which of the following is not one of the four base pairs?

a. glucosamine

- b. cytosine
- c. adenine

d. thymine

ANSWER: a REFERENCES: 37 OTHER: Factual

NOTES: Pickup

55. The process of transcription is related to:

- a. the conversion of DNA into a protein
- b. the division of cells in a sister chromatid
- c. the replication of cells in segregation
- d. mutation events in reproduction

a

ANSWER:

REFERENCES:37OTHER:ConceptualNOTES:New

56. In protein synthesis, all of the following are involved except:

a. RNA b. ribosomes c. codon d. fovea centralis ANSWER: d REFERENCES: 37 OTHER: Factual NOTES: New

57. Cell division begins when chromosomal DNA replicates and each chromosome becomes a pair of:

a. nuclei

b. sister chromatids

c. mother chromatids

d. eukaryotes

ANSWER:bREFERENCES:38OTHER:Conceptual

NOTES: New

58. Cell division that involves exact replication of parent cells is called:

a. mitosis

b. mitochondriosis

c. meiosis

d. cloning

ANSWER: a

REFERENCES: 38 OTHER: Factual

NOTES: Pickup

59. Proteins are significant to the life of the organism in various ways. Those that initiate and direct chemical reactions are called:

a. enzymes b. protons c. codons d. ribosomes ANSWER: a REFERENCES: 37 OTHER: Factual NOTES: New

60. Which of the following terms best describes the 3 billion chemical bases with 20,000 to 25,000 genes that define

humans? a. ribosome b. genome c. enzyme d. transcription ANSWER: b REFERENCES: 37 OTHER: Factual NOTES: New

61. During meiosis, genes are divided into:

- a. two new cells
- b. four new cells
- c. six new cells
- d. eight new cells

ANSWER: b REFERENCES: 40 OTHER: Factual

NOTES: Pickup

62. In the "Biocultural Connection," why did the U.S. government support using DNA tests at the Dadaab refugee camp in Nairobi, Kenya?

a. to test individuals for basic health and determine carriers of disease

b. to test asylum seekers to determine whether they were related to a U.S. citizen

c. to test families to see if they were legitimate refugees in the U.S. facility there

d. to test whether any of those seeking asylum has originated in the United States

ANSWER:bREFERENCES:41OTHER:Conceptual

NOTES: New

63. What deficiencies were revealed in the DNA testing protocol among refugees in the Dadaab refugee camp in Nairobi, Kenya?

a. Family relationship is not solely constituted by biology.

b. Families did not always carry the same types of genetic markers.

c. Families did not understand why DNA was needed and often refused.

d. Families did not want to live with relatives in the United States.

ANSWER: a

REFERENCES: 41

OTHER: Conceptual

NOTES: New

64. If a young man has type A blood, this is his:

- a. DNA
- b. genome
- c. phenotype

d. genotype	
ANSWER:	c
REFERENCES:	42
OTHER:	Factual
NOTES:	Pickup

65. Chimpanzees and humans share what percentage of DNA similarity?

a. 90	
b. 95	
c. 97	
d. 98	
ANSWER:	d
REFERENCES:	43
OTHER:	Factual
NOTES:	Pickup

66. The chimp's genome is estimated to be what percentage larger than the human's?

c
43
Factual
Pickup

67. Because type O blood is codominant, a woman with type O blood knows that OO is her:

- a. DNA
- b. genome
- c. phenotype
- d. genotype

ANSWER:dREFERENCES:42OTHER:ConceptualNOTES:Pickup

68. Which of the following best describes polygenetic inheritance?

a. An individual receives multiple alleles from more than two parents.

- b. Characteristics resulting from polygenetic inheritance exhibit a wide variation in genotypic expression.
- c. Characteristics resulting from polygenetic inheritance exhibit a wide variation in phenotypic expression.

d. Characteristics most commonly result in mutation.

ANSWER:

REFERENCES: 44

OTHER: Conceptual

с

NOTES: New

69. All of the following are evolutionary forces except:

- a. genetic drift
- b. gene flow
- c. genetic cloning
- d. mutation
- ANSWER: c

REFERENCES: 44

OTHER:	Factual
NOTES:	Pickup

- 70. In evolutionary terms, what kind of force is mutation?
 - a. It is negative because mutation decreases chances for survival.
 - b. It is positive because it provides variation for selection.
 - c. It is neutral because variation does not matter in the long run.
 - d. Mutation cannot be evaluated in these terms.

ANSWER:

REFERENCES: 44

OTHER: Conceptual

b

NOTES: Pickup

71. What variable force is most important to adaptation over time?

- a. founder effects
- b. genetic drift
- c. random mutation
- d. gene flow

ANSWER: c REFERENCES: 44

OTHER: Conceptual

NOTES: Pickup

72. Chance fluctuations of allele frequencies in the gene pool of a population are evidences of:

- a. genetic drift
- b. gene flow
- c. mutation
- d. directional selection

ANSWER: a

REFERENCES: 44

OTHER:FactualNOTES:Pickup

73. Founder effects is a type of:

- a. gene flow
- b. genetic drift
- c. natural selection
- d. environmental selection

ANSWER: b

REFERENCES:45OTHER:FactualNOTES:Pickup

74. A small group of people with several color-blind individuals moves from the mainland to a previously uninhabited, secluded island. Two hundred years later, 5 percent of the people of the island have color-blindness. This is an example of:

a. founder effects

- b. population bottleneck
- c. mutation
- d. gene flow

ANSWER: a

- REFERENCES: 45
- OTHER: Conceptual
- NOTES: Pickup

75. Interbreeding allows for:

a. gene flow

b. genetic drift

- c. genetic cloning
- d. genetic testing

ANSWER: a

REFERENCES: 46

- OTHER: Conceptual
- NOTES: Modify

76. Which evolutionary force keeps populations from developing into separate species?

- a. founder effects
- b. mutation
- c. random genetic drift
- d. gene flow

ANSWER: d

REFERENCES: 46

OTHER:	Conceptual
NOTES:	Modify

77. A painful disease in which oxygen-carrying red blood cells change into abnormal shapes is called:

- a. anemia
- b. natural blood selection
- c. trisomy 21

d. sickle-cell anemia

ANSWER: d

REFERENCES: 47

- OTHER: Factual
- NOTES: Pickup

- 78. Adaptation can best be described as:
 - a. an inherited form of anemia caused by a mutation
 - b. dominant characteristics in the gene pool
 - c. a series of beneficial adjustments to the environment
 - d. the introduction of alleles from the gene pool of a nonnative population

ANSWER:

REFERENCES: 46

OTHER: Conceptual

с

NOTES: Pickup

79. Ultimately all natural selection is biologically measured in terms of:

- a. reproductive success
- b. environmental adaptation
- c. macroevolution

d. random genetic frequency

ANSWER:

REFERENCES: 46

- OTHER: Conceptual
- NOTES: New
- 80. The biological term *fitness* refers to:
 - a. physical and mental prowess
 - b. physical stamina and longevity
 - c. reproductive potential
 - d. stabilizing influences

ANSWER: c

REFERENCES: 46

- OTHER: Conceptual
- *NOTES:* New

81. Each of the following commonly affects mutation rates except:

- a. stress
- b. radiation
- c. antibiotics
- d. fitness

ANSWER:dREFERENCES:44OTHER:ConceptualNOTES:New

- 82. Which of the following statements about adaptation is incorrect?
 - a. Many traits have no adaptive function.
 - b. Adaptations are adjustments to a specific environment.
 - c. Adaptation at a genetic level reveals natural selection.
 - d. Natural selection and adaptation always promote genetic change.

REFERENCES:46OTHER:ConceptualNOTES:New

83. When natural selection favors retention of an allele frequency because the population is well adapted, it is referred to as:

a. reproductive success

- b. stabilizing selection
- c. founder effects

d. directional selection

ANSWER:bREFERENCES:46OTHER:FactualNOTES:New

84. Sickle-cell anemia is found in highest frequencies in populations from:

- a. East Africa
- b. Central Arica
- c. South Africa
- d. North Africa

ANSWER: b REFERENCES: 47

OTHER: Factual

NOTES: Modify

85. Scientists have found that carrying sickle-cell anemia (meaning, one is heterozygous) protects an individual from:

- a. chicken pox
- b. malaria
- c. pneumonia
- d. common cold

ANSWER: b

REFERENCES:47OTHER:FactualNOTES:Pickup

86. The allele for sickle-cell anemia is believed to have originated in areas where there are large populations of mosquitoes bearing:

- a. falciparum malaria
- b. parasitic dysentery
- c. smallpox

d. yellow fever

ANSWER: a REFERENCES: 47 OTHER: Factual

NOTES: Modify

87. The continuous gradation over space in the form or frequency of a genetic trait is known as a:

a. stabilizing selection

- b. codon
- c. cline

d. transcription

ANSWER: c

REFERENCES: 48

OTHER:	Factual
NOTES:	Modify

88. Why does a bulky body tend to conserve more heat than a slender one?

- a. It has less surface area relative to volume.
- b. It has more surface area relative to volume.
- c. It has more fat regulation.

a

d. It is more layered, with fat covering muscles.

ANSWER:

REFERENCES: 48

OTHER: Conceptual

NOTES: Pickup

89. Anthropologists study biological diversity among populations in terms of:

- a. mutation
- b. gene flow
- c. clines

d. inheritance

ANSWER:cREFERENCES:48OTHER:ConceptualNOTES:New

- 90. Which of the following is most likely to suffer effects from summer heat?
 - a. someone with a slender body build and relatively long extremities
 - b. someone with a bulky body build and relatively short extremities
 - c. someone with a slender body build and relatively short extremities
 - d. someone with a bulky body build and rather long extremities

ANSWER: b

REFERENCES: 48

OTHER:ConceptualNOTES:New

91. The formation of a new species is known as _______while ______focuses on the evolutionary relationships between related species.

- $a.\ macroevolution/microevolution$
- b. macroevolution/speciation
- c. speciation/microevolution
- d. speciation/macroevolution

ANSWER:dREFERENCES:49OTHER:ConceptualNOTES:Pickup

92. A sustained directional shift in a population's average characteristics is called:

a. cladogenesisb. genetic driftc. anagenesisd. speciation

ANSWER:cREFERENCES:49OTHER:FactualNOTES:Pickup

93. If two populations of primates were separated for a substantially long period of time by geographical changes, causing them, over time, to begin developing characteristics that distinguished them from each other, it could result in:

a. allelic homogeneity

b. allelic homogeneity

c. anagenesis

d. cladogenesis

ANSWER: d

REFERENCES: 49

OTHER:	Conceptual
NOTES:	Pickup

94. What do we call the factors that separate two breeding populations?

- a. fission factors
- b. isolating factors
- c. punctuated equilibria
- d. cladogenesis

ANSWER: a

REFERENCES:	49
OTHER:	Factual
NOTES:	Pickup

95. Achromatopsia is a condition sometimes caused by founder effects. It is also known as:

- a. river blindness
- b. color-blindness
- c. light sensitivity

d. filter defect

ANSWER: b

REFERENCES: 45

OTHER: Factual

NOTES: New

- 96. Why is the genetic comparison between humans and chimpanzees sometimes misleading?
 - a. It ignores qualitative differences between genomes.
 - b. It ignores quantitative differences between genomes.
 - c. It ignores individual differentiation within genomes.
 - d. It attempts to explain all diversity through a simple comparison.

ANSWER:

REFERENCES: 43

OTHER: Conceptual NOTES: New

h

97. In a heterozygous individual, the dominance of one allele means that:

- a. the recessive allele has been lost or damaged
- b. the recessive allele was not copied during mitosis
- c. the recessive allele is not being expressed
- d. the recessive allele is skipping generations

ANSWER: c REFERENCES: 42

OTHER: Conceptual

NOTES: New

98. When two or more genes contribute to the phenotypic expression of a single characteristic, it is known as:

- a. punctuated equilibrium
- b. polygenetic inheritance
- c. clinal expression
- d. genetic drift

ANSWER:bREFERENCES:42OTHER:FactualNOTES:New

99. Which of the following best describes a karyotype?

- a. It is the array of chromosomes found within a single cell.
- b. It is the sequence of amino acids expressed within a protein.
- c. It is a protein that directs chemical reactions.
- d. It is the complete structure of DNA for a species.

```
ANSWER: a
```

REFERENCES: 37

- OTHER: Factual NOTES: New
- 100. Compared to other chromosomes, the Y chromosome is:
 - a. small and carries very little genetic information
 - b. small and carries much more genetic information
 - c. large and carries very little genetic information
 - d. large and carries much more genetic information

a

REFERENCES:38OTHER:ConceptualNOTES:New

Completion

101. A group of	like species is a
ANSWER:	genus
REFERENCES:	32
OTHER:	Factual
NOTES:	Pickup
102. The major of	organizing principle of biological science is
ANSWER:	evolution
REFERENCES:	31
OTHER:	Factual
NOTES:	Pickup
	st working units of biological classification systems are
ANSWER:	species
REFERENCES:	
OTHER:	Factual
NOTES:	Pickup
104. The science	of classification is called
ANSWER:	taxonomy
REFERENCES:	32
OTHER:	Factual
NOTES:	Pickup
	Lyell proposed a nonreligious theory to account for variations in the earth's surface over extremely long It is called
ANSWER:	catastrophism
REFERENCES:	-
OTHER:	Factual
NOTES:	New
106. The wings	of a bird and those of the butterfly are considered structures.
ANSWER:	analogous
REFERENCES:	33
OTHER:	Conceptual
NOTES:	Modify
107. James Wats	on and Francis discovered the existence of DNA in 1953. Crick
REFERENCES:	

OTHER:	Factual
NOTES:	Pickup
108. Darwin's t	heory is properly known as the theory of
ANSWER:	natural selection
REFERENCES.	: 34
OTHER:	Factual
NOTES:	New
109. The Mende	elian principle that variants of a gene retain their separate identities through generations is the law of
ANSWER:	segregation
REFERENCES:	
OTHER:	Factual
NOTES:	New
110 A	
ANSWER:	e of chemical bases on a molecule of DNA constitutes a recipe for making proteins
REFERENCES:	*
OTHER:	
NOTES:	Pickup
NOILS.	г скир
111. The proces	ss of conversion of instructions from DNA to RNA is called
ANSWER:	transcription
REFERENCES.	: 37
OTHER:	Factual
NOTES:	New
112. Sister chro	matids are when two copies of the original chromosome are joined in the shape of a(n)
ANSWER:	X
REFERENCES.	: 38
OTHER:	Factual
NOTES:	New
110 W/I	
	ne contains identical alleles it is referred to as being
ANSWER:	homozygous
REFERENCES: OTHER:	Factual
NOTES:	New
114. In the A-B	-O blood system, an individual with type O has an OO
ANSWER:	genotype
REFERENCES.	: 42

OTHER: Factual NOTES: New

115. When neither allele is dominant, it is referred to as _____. ANSWER: codominance REFERENCES: 42 OTHER: Factual Pickup NOTES: 116. The blood protein that carries oxygen is called ______. ANSWER: hemoglobin REFERENCES: 42 OTHER: Factual Pickup NOTES: 117. The ultimate source of evolutionary change and all new genetic material is ______. ANSWER: mutation REFERENCES: 44 **OTHER:** Factual NOTES: Modify

118. When an existing population splits up into two, the kind of genetic drift that occurs is called

ANSWER:	founder effects
REFERENCES:	45
OTHER:	Conceptual
NOTES:	Pickup
110 Adaptation	is the outcome of
-	natural selection
REFERENCES:	
OTHER:	
NOTES:	*
	Текир
120. Heterozygo	tes for sickle-cell anemia protect against
ANSWER:	malaria
REFERENCES:	47
OTHER:	Factual
NOTES:	Pickup
121. Anthropolo	gists study biological diversity in terms of
ANSWER:	
REFERENCES:	48
OTHER:	Conceptual
NOTES:	-
122. Sickle-cell	anemia is caused by a mutation in the protein.
ANSWER:	hemoglobin
REFERENCES:	47

OTHER:FactualNOTES:New

123. Factors that separate breeding populations and lead to the creation of new species are called ______ mechanisms.

ANSWER:	isolating
REFERENCES:	49
OTHER:	Factual
NOTES:	New

 125. The four evolutionary forces are natural selection, gene flow, mutation, and ______.

 ANSWER:
 genetic drift

 REFERENCES:
 44

 OTHER:
 Factual

 NOTES:
 New

Subjective Short Answer

126. What criter	ia did Linnaeus use to establish his classificatory system?
ANSWER:	Linnaeus based his classification on body structure, body function, and sequence of body growth.
REFERENCES:	32
OTHER:	Factual
NOTES:	Pickup
127. Distinguish	analogies from homologies.
ANSWER:	Analogies identify anatomical features of similar function across species, and homologies are structures possessed by two different organisms that arise in similar fashion and pass through similar stages during embryonic development but which have different functions.
REFERENCES:	32
OTHER:	Factual

NOTES: Pickup

128. What distinguishes a creation story from the theory of evolution?

ANSWER:Evolution explains the diversity of life in a consistent scientific language using hypotheses.REFERENCES:31OTHER:ConceptualNOTES:New

129. Explain the theory of inheritance of acquired characteristics proposed by Jean-Baptiste Lamarck. *ANSWER:* This theory argues that behavior brings about changes in organisms' forms.

REFERENCES	. 33
OTHER:	Factual
NOTES:	New
NOILS.	INEW
130 Describe t	he theory of natural selection.
ANSWER:	There exists natural variation and the capacity for population to exceed capacity; thus, there is a struggle
	for existence in which nature selects the most advantageous variations so that species can evolve.
REFERENCES	: 34
OTHER:	Conceptual
NOTES:	Pickup
131. Define Me	ndel's "law of independent assortment."
ANSWER:	This law states that genes controlling different traits are inherited independently of one another.
REFERENCES	36
OTHER:	Conceptual
NOTES:	New
132. In genetics	s, what does the term <i>translation</i> mean?
ANSWER:	It is the process of conversion of RNA instructions into proteins.
REFERENCES	. 37
OTHER:	Factual
NOTES:	New
133. Briefly de	scribe the process of protein synthesis and the involvement of codons.
133. Briefly dea ANSWER:	In protein synthesis, a codon specifies production of a particular amino acid, and the directions are
•	In protein synthesis, a codon specifies production of a particular amino acid, and the directions are converted into RNA that travels to the ribosomes where anticodons of transfer RNA transport it to the
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ANSWER: REFERENCES OTHER: NOTES: 134. Distinguis	In protein synthesis, a codon specifies production of a particular amino acid, and the directions are converted into RNA that travels to the ribosomes where anticodons of transfer RNA transport it to the corresponding mRNA codons. The amino acids are joined together by peptide bonds forming a new protein. 37 Conceptual New
ANSWER: REFERENCES OTHER: NOTES: 134. Distinguis	In protein synthesis, a codon specifies production of a particular amino acid, and the directions are converted into RNA that travels to the ribosomes where anticodons of transfer RNA transport it to the corresponding mRNA codons. The amino acids are joined together by peptide bonds forming a new protein. 37 Conceptual New h between genotype and phenotype. Genotype is the genetic composition for a trait, whereas the phenotype is the expressed physical characteristic.
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136. Genetic drift and gene flow can be easily confused because of the similarities in their names. What is the difference

Ū.	e drift and gene flow?
ANSWER:	Genetic drift refers to chance fluctuations of allele frequencies of a population and can be seen in both
	founder's effect and population bottlenecks where a small group of people is isolated from a larger
	population and there is an increase in the expression of a certain gene. By contrast, gene flow refers to the introduction of alleles of one population into another. An example here would be an immigrant
	population who interbreeds with the existing population.
REFERENCES.	
OTHER:	Conceptual
NOTES:	Pickup
137. Choose on	e kind of evolutionary force and explain it.
ANSWER:	Students may choose and describe mutation, gene flow, genetic drift, or natural selection.
REFERENCES.	
OTHER:	Factual
NOTES:	
NOIES.	Modify
138. What are f	ounder effects, and what can result from this?
ANSWER:	Founder effects are a type of genetic drift that occurs when a small founding population, which does not
	possess all of the alleles present in the original population, breaks off. This can result in speciation.
REFERENCES.	: 45
OTHER:	Conceptual
NOTES:	New
139. What are s	ome factors that increase the frequency of gene flow?
ANSWER:	Interbreeding, migration, and geographical and social factors can increase gene flow.
REFERENCES.	
OTHER:	Conceptual
NOTES:	Pickup
NOTES.	rekup
140. What is ad	aptation, and what is its role in natural selection?
ANSWER:	Adaptation is a series of beneficial adjustments to the environment that can change the organism over
	time.
REFERENCES.	: 48
OTHER:	Applied
NOTES:	Pickup
	1
141. What is sic	ckle-cell anemia, and how is it adaptive?
ANSWER:	This is a disease of misshapen red blood cells that clog the circulatory system. It is primarily carried by
	those of African ancestry who come from areas where malaria rates are high; carriers of sickle cells have an ability to better survive malaria.
REFERENCES.	•
OTHER:	Conceptual
	-
NOTES:	Pickup
142. Describe s	ome of the genetic variation that is most common to people native to colder regions of the world.
ANSWER:	Individuals adapted to colder regions of the world tend to have bulkier bodies, a lower density of sweat
	glands, some circulatory system modifications, and shorter stature.
DEFEDENCES	40

REFERENCES: 48

OTHER:	Conceptual
NOTES:	Pickup
142 0	
143. Compare a	and contrast cladogenesis with anagenesis.
ANSWER:	Both are processes of speciation, but in cladogenesis, the original species branches out and separates, and in anagenesis, the original species itself changes over time into a new species.
REFERENCES	: 49
OTHER:	Conceptual
NOTES:	Pickup
144 How door	and strated a sufficient differ from the Demain model of an dual shores area time?
	punctuated equilibrium differ from the Darwin model of gradual change over time?
ANSWER:	Punctuated equilibrium is a model that argues that periods of stable change are occasionally punctuated
	by periods of rapid change.
REFERENCES	: 49
OTHER:	Conceptual
NOTES:	New

Essay

145. Creationism has changed shape over the past decade. Discuss some of the major disagreements between creationism and evolution. Has your study of evolution in this chapter changed your understanding of this debate? *ANSWER:* will vary

OTHER: Conceptual NOTES: Pickup

146. Although human populations are subject to the same laws of natural selection as other species, humans also have extensive and elaborate culture. Choose and discuss two examples of cultural processes that complicate simple environmental adaptation.

ANSWER: will vary OTHER: Conceptual NOTES: Pickup

147. Discuss protein synthesis and the various ways that biological variation can (and does) occur within the individual organism during this process.

ANSWER: will vary OTHER: Conceptual NOTES: New

148. Describe how each of the four evolutionary forces contributes to an organism's adaptation.

ANSWER: will vary OTHER: Conceptual NOTES: Pickup

149. How does speciation occur? Use examples and discuss the evolutionary processes that are involved.ANSWER: will varyOTHER: ConceptualNOTES: New

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