Nome

Date

Assessment
Topic 1.1

8. "Continuity" is dependent on whether living things

A. grow.

C. use energy.

B. reproduce.

D. respond to stimuli.

9. If continuity did not occur for a species, then that species would face the threat of

A. isolation.

C. habitat loss.

B. extinction.

D. propagation.

10. Which of the following is associated with asexual reproduction?

I	one parent	
п	genetic variation between offspring	
ш	offspring have the exact genetic makeup as the parent	

A. I and II only

C. II and III only

B. I and III only

D. I, II, and III

11. Which of the following is an example of asexual reproduction?

A. a paramecium splits into two new organisms

B. a black-capped chickadee uses a variety of songs to attract mates

C. a checkerspot butterfly transfers pollen from one wildflower to another

D. a male red fox successfully courts a vixen, resulting in a litter of four kits

12. A horse has 64 chromosomes. During sexual reproduction, how many chromosomes does each of the parents contribute to the offspring?

7 3 57	Male Horse	Female Horse
A.	32	32
В.	32	64
C.	64	32
D.	64	64

13. What are the building blocks of DNA called?

A. sugars

C. nucleotides

B. chromatins

D. chromosomes

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14. What do asexual reproduction and sexual reproduction have in common?

A. They both require the individual finding a mate.

B. They both result in genetically identical individuals.

C. They both involve the parent inheriting DNA from the offspring.

D. They both involve the passing on of genetic material to future generations.

15. Which of the following describes the results of most cases of sexual reproduction?

I	offspring are genetically different from parents	
п	offspring are genetically identical to both parents	
III	offspring are genetically different from each other	
The state of		

A. I and II only

C. II and III only

B. I and III only

D. I, II, and III

16. Chromosomes consist of which of the following?

I	DNA
II	nucleotides
Ш	A, C, T, and G

A. I and II only

C. II and III only

B. I and III only

D. I, II, and III

17. What determines the colour of a grizzly bear's fur?

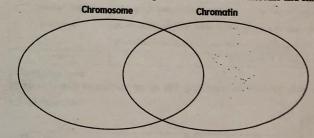
A. the DNA sequence

C. the size of the chromatin

B. the type of nucleotides

D. the number of chromosomes

18. Complete the Venn diagram to compare and contrast chromosome and chromatin.



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