Name	Date	Period

Chapter 11 Concept Review

Directions : Answer the following questions us	sing your notes and textbook	
1. Genetic variation in populations lead to diffe	rences in	
acts on phenotype		
3. Environmental conditions can change and a	certain phenotype may become an	
4. Microevolution-observable change in allele	frequency of a over time	
5. Directional Selection- causes	in a populations phenotypic distribution	
6. Stabilizing Selection- the intermediate more common.	is favored and becomes	
7. Disruptive Selection- occurs when both extra are selected against	emes are favored and	
8. Gene flow between populations keeps gene	pools	
9. Lack of gene flow <u>increases</u> chance that two	populations will evolve into different	
	s due to (Two ways this	
11. Bottleneck Effect-	_ drift that occurs after an event (e.g. overhunting)	
12. Founder Effect- genetic drift that occurs af	er a small number of individuals	
a new area		
13. Mating can have important effect on	of population	
a. Males make many sperm continuous	ly (value of each relatively)	
b. Females more limited in number of _ investment more valuable, and they was	can produce (each	
14. Hardy-Weinberg equilibrium describes pop	oulations that are evolving	

15. Said genotype frequenc conditions are met. (5 condi		over time as long as certain	
a. Very large	(no genetic drift can occur)		
b. No	or	(no gene flow can occur)	
c. No	(no new alleles can be added to the gene pool)		
d. Random	(no sexual	selection can occur	
16. The Hardy-Weinberg equ population	ation is used to	genotype frequencies in a	
17	the rise of two or more s	pecies from one existing species	
18. Reproductive isolation- values successfully with one another	•	oopulations can no longer	
19. Behavioral isolation- isomating behavior)	lation caused by differences	in or	
20. Geographic isolation- in	volves physical barriers that	populations	
21. Temporal Isolation-	prevents	reproduction between populations	
22. The response of species	s to environmental challenge	es and opportunities is not	
a. Convergent Evolut unrelated species	ion- evolution towards	characteristics in	
b. Divergent Evolution	n- related species evolve in	different directions and become	
increasingly			
23	two or more species evolve	e in response to changes in each other	
24. Punctuated equilibrium-	of o	evolutionary activity	
25	radiation- Diversificat	ion of one ancestral species into many	
descendent species			