Name:			Date:					
<u>Chapter 24 Wo</u> (Due in class V			of Species (20 p	<u>ts.)</u>		/ 20		
MULTIPLE CHO	OICE. Choo	se the one alternat	ive that best comp	etes the statement or a	nswers the question	n.		
	1) Which of the following statements is consistent with the punctuated equilibrium interpretation speciation?							
-		n is caused by popu	ulation explosions.					
-	-		-	t bursts of significant ch	nange.			
	C) Evolution proceeds at a slow, steady pace.							
	D) There is an equilibrium between living and extinct species.							
			ickly than small on					
 If two species are able to interbreed but produce sterile hybrids, their species integrity is maintained by 						2)		
A) a pre	ezygotic bai	rier.						
B) intro	gression.							
C) game	etic isolatio	n.						
D) hybr	id inviabili	ty.						
E) a pos	stzygotic ba	nrrier.						
3) The repr	oductive ba	arrier that maintair	ns the species bound	lary between horses and	d donkeys is	3)		
-	nanical isola		-	-	·			
B) game	etic isolatio	n.						
C) hybr	id inviabili	ty.						
-	D) hybrid breakdown.							
E) hybr	id sterility.							
4) The biol	ogical speci	es concept would ł	pe inadequate for g	ouping		4)		
A) bacte		B) mammals	C) plants	D) amphibians	E) reptiles	, <u> </u>		
5) The Haw	vaijan Islan	ds are a great show	vcase of evolution b	ecause of intense		5)		
		ion and parapatric						
	0	d allopatric speciat	-					
-	U							
-	C) allopolyploidy and sympatric speciation. D) adaptive radiation and allopatric speciation.							
-		ating and reinforce	•					
	6 th a 6 all and		- 1 - tim	- :		6)		
6) Which of the following reproductive isolating mechanisms is postzygotic? A) behavioral isolation								
-	B) gamete incompatibility C) hybrid sterility							
-	-	on						
-	ooral isolati							
E) habit	tat isolatior	1						

	7) Races of humans are unlikely to evolve extensive differences in the future for which of the following reasons?						
	he environment is un	likely to change.					
	Iumans are essentiall						
III. 7	The human races are i	ncompletely isolated.					
A) I	and II only						
B) I	only						
C) I	, II, and III						
D) I	II only						
E) I	I and III only						
follo	breeders perpetuate wing natural isolatin tybrid breakdown		ntrolling mating. This is ana	logous to which of the	8)		
	mechanical isolation						
	educed hybrid fertili	+ 17					
	gametic isolation	cy					
	nabitat isolation						
			(9)		
	9) Which of the following would be an example of macroevolution?A) evolution of antibiotic resistance in bacteria						
B) e			a nus, with each morph mimic	cking a different			
D) _I	populations of pepper cryptic on lichen-cover larkened, soot-cover	red moths in England ered tree trunks to a b ed tree trunks followi	om australopithecine ancesto shifting from a predominan black, melanistic form that w ng the pollution-producing ations of insect pests treated	ntly white form that was vas less visible on ; Industrial Revolution			
10) A biologist discovers two populations of wolf spiders whose members appear identical. Members of one population are found in the leaf litter deep within a woods. Members of the other population are found in the grass at the edge of the woods. The biologist decides to designate the members of the two populations as two separate species. Which species concept is this biologist most closely utilizing?							
A) §	geneological	B) ecological	C) morphological	D) biological			
und spec	escribed (new to scier	nce). Your assignment	erved) grasshoppers of vario is to separate them into wh ith them as to where or whe	nat you think are	11)		
A) 1	norphological	B) biological	C) ecological	D) pluralistic			

VOCABULARY. Define each term or phrase in the space provided or on a separate sheet of paper.

12) anagenesis

13) sympatric speciation

- 14) ecological species concept
- 15) biological species concept
- 16) autopolyploid

ESSAY. Write your answer in the space provided. (2 pts. each)

17) List three prezygotic barriers to evolution, and give a brief description of each.

18) Give the three steps that take place that lead "fringe" populations to eventually become new species.