Evolution, Natural Selection Quiz

1.Wh		d Darwin use hales	to develop his theo b) Tortoises		natural selection? Irine Iguanas	d) Finches		
2. Wh	a) Humansb) Faster gasgeneratic) A spider	develop wing azelles evade on 2 loses its leg a	gs so that they can e cheetahs, resulting all	fly. g in m have 7	of evolution by nat ore fast ones being 7 legs hem to walk on lan	g born in		
forms	s, from an an is the in-bet	cestor organ		ern org rds)	e "stepping stones ganism? (Example: c) Index fossil			
4. Wł	nich of the fo a) DNA	•	T evidence that so ous structures		ganisms have share alogous structures			
5. Div	versity in a specification a specification (pecies is likel n	y to lead to b) survival	c) sta	tic forms	d) mutation		
	elective pres				a mainly in a hospit and then explain h			
 7. Why don't individuals evolve, but populations do? a) You can't change the genetics of an individual b) The population's overall characteristics can change over time c) Natural selection can cause some individuals to not survive, changing the overall population d) All of the above. 								
8. Wh	a) descent b) evolution	with modifica nary brinksma nental complo	nship	as abo	ut evolution?			

- 9. Which of the following is **not** predicted by evolution?
 - a) populations will change when the environment changes
 - b) Some organisms in a population will have an advantage over others, and will have better chances of survival.
 - c) Some populations will go extinct if they cannot adapt to environmental changes
 - d) Organisms will become more and more complex over time
- 10. Which of the following can drive natural selection in a population of organisms?
 - a) Changes in the environment
 - b) Selection females choosing mates by their characteristics
 - c) Humans breeding organisms like fruit trees or dogs to get offspring with better characteristics.
 - d) all of the above.
- 11. Underwater, bright colors like red, orange and yellow show up to be dull and help fish actually blend in with the background. A species of fish has 2 forms: a red stripe and no bright stripes. They are hunted by a predator. Which of the following would be predicted in this situation?
 - a) The red striped fish would have an advantage and more would survive due to camouflage.
 - b) The non-colored fish might be eaten more by the predator shark, leaving fewer to reproduce.
 - c) The next generation will have more red striped fish than non-colored fish
 - d) All of the above.
- 12. A species of mouse that lives in Canada has both white coloring and brown coloring. They are hunted by a species of predatory bird. Explain why it might be an advantage for the survival of the species to have both colors in the population (2 points).
- 13. Imagine that the mice from example 12 lost one of the colors (so now they're all white or all brown). Which of the following might be more likely to happen?
 - a) The entire species would continue as one color and keep growing in number.
 - b) The species might die out (Extinction) because they aren't camouflaged in some seasons
 - c) The whole species will evolve to have several different colors so they can survive in multiple seasons
 - d) The species will evolve into a new species that preys on the birds.
- 14. What is a vestigial structure? Give 1 example, and tell how it gives evidence of evolution. (4 points)