11.6 Patterns in Evolution

1. KEY CONCEPT: Evolution occurs in ____________________.

2. Evolution through ____________________l selection is not ____________________.
   a. Natural selection can have ____________________.
   b. The effects of natural selection ________________ up over time.

3. ____________________ evolution describes evolution toward __________________ traits in unrelated species.

4. ____________________ evolution describes evolution toward __________________ traits in closely related species.

5. Species can shape each other over time.
   a. Two or more species can evolve ____________________ through ____________________.
      i. evolutionary paths become ____________________
      ii. species evolve in response to changes in each ____________________

6. Coevolution can occur in ____________________ relationships.

7. Coevolution can occur in ____________________ relationships, sometimes called evolutionary.

8. Species can become ____________________.
   a. ____________________ is the elimination of a species from Earth.
   b. ____________________ extinctions occur continuously at a very low rate.
      i. occur at roughly the same rate as ____________________
      ii. usually affects a few species in a small area
      iii. caused by local changes in ____________________

9. Background extinctions occur continuously at a very ________________ rate.
   a. occur at roughly the same rate as speciation
   b. usually affects a few species in a small area
   c. caused by local changes in ____________________

10. Mass extinctions are ________________ but much more ________________.
    a. destroy many species at ________________ level
    b. thought to be caused by ________________ events
    c. at least ________________ mass extinctions in last ________________ million years

11. ____________________ often occurs in ____________________.
    a. A pattern of ____________________ equilibrium exists in the ________________ record.
       i. theory proposed by Eldredge and Gould in 1972
       ii. episodes of speciation occur suddenly in ________________ time
       iii. followed by long periods of little evolutionary change
       iv. ________________ Darwin’s idea that species arose through ________________l transformations

12. Many species evolve from one species during ________________ radiation.
    a. ancestral species diversifies into many descendent species
    b. descendent species usually adapted to wide range of ____________________