Coral Reef Review:

1. With the aid of a labeled diagram, describe the structure of one coral animal. To what kingdom and phylum do these animals belong? Describe the most critical symbiotic association involving coral.

2. List and describe five ways that coral animals feed.
   A.
   B.
   C.
   D.
   E.

3. What are encrusting coralline algae? List three functions of these algae relating to life on a reef.
   A.
   B.
   C.

4. List and describe three different patterns of coral reproduction.
   A.
   B.
   C.

5. What are the ideal environmental conditions for reef growth?
   A.
   B.
   C.

6. What is "coral bleaching"? What steps can humans take to reduce this problem?

7. List and describe five ways human activities lead to destruction of coral reefs.
   A.
   B.
   C.
   D.
   E.

8. Describe the difference between the following kinds of reefs: (be able to draw each)
   - Fringing-
   - Barrier-
   - Atoll-

9. List and describe where you would find the two most important primary producers on a reef.
   A.
   B.
10. Coral and zooxanthellae each make two significant contributions to each other. For each organism list the two factors.

Coral
A. 
B. 

Zooxanthellae
A. 
B. 

11. What kinds of organisms play a role in nitrogen fixation and nutrient cycling on a coral reef?

12. Explain how some fish or snails that only eat fast-growing coral encourage coral species diversity.

13. Many scientists fear that over-fishing will have a serious impact on coral reef ecology. What would be their reasons for concern?

14. Describe how damselfish are territorial. Why doesn't coral grow in their garden? Why is this adaptation good for damselfish?

15. List five ways that different species of coral compete for space on the reef.
A. 
B. 
C. 
D. 
E. 

16. How do sea stars eat coral?

17. Which species of sea star is the most devastating to corals?

18. Describe at least two other mutualistic associations on the reef in addition to coral and zooxanthellae.
A. 
B. 