

Name \_\_\_\_\_

Date Due: \_\_\_\_\_

**UNIT 2** PLANTS FOR FOOD AND FIBRE **Topic 2: Structure and Adaptations**

1. What are some environmental characteristics that help determine a particular habitat?
2. What are two reasons to understand the structure of plants and how they adapt?

Roots:

3. What are three important functions of roots?
  - 1.
  - 2.
  - 3.
4. Explain the difference between a taproot and a fibrous root system.
5. What is the function of the smaller roots and root hairs on a taproot system?
6. Explain how the roots of the moss campion are specially adapted to the high, dry, cold mountains.

Root Crops:

7. What are four examples of roots that people eat?
8. What makes root crops an important part of the diet of many people of the world?
  - 1.
  - 2.
  - 3.

Diffusion and Osmosis:

9. What is diffusion. Give an example.

10. What is meant by differentially permeable?

11. What is osmosis?

Stems:

12. Give the function of each of following parts of the stem (trunk) of a tree:

Heartwood:

Xylem:

Cambium:

Phloem:

Bark:

13. What are three important functions of the stem of a plant?

14. What are potatoes, and what is their purpose in terms of the potato plant?

15. How are the flattened stems of the prickly pear cactus an adaptation to the plant?

16. What are the tallest stems in the world?