**QUESTION SHEET - Chapter 37**

1. What defines a plant essential chemical element?

2. What is hydroponic culture?

3. Name the nine macronutrients that are essential elements in plants.

 (1).

 (2).

 (3).

 (4).

 (5).

 (6).

 (7).

 (8).

 (9).

4. What are the three most common nutritional deficiencies in plants?

 (1).

 (2).

 (3).

5. Define: Soil "texture".

6. Define: Soil "Composition".

7. What is "Topsoil"?

8. What are soil layers called?

9. What water is available to plants after a rainfall?

10. How do acids from roots help plants nutritionally?

11. Organic fertilizers may be composed of what three things?

 (1).(2). (3).

12. What is a "Smart" plant?

13. What is phytoremediation?

14. Name three different classes of molecules that need nitrogen as a component.

 (1).

 (2).

 (3).

15. Where does soil nitrogen come from and how does it get in the soil?

16. Nitrogen fixing bacteria are associated with what commercial crop?

17. Explain the symbiotic relationship between nitrogen fixing bacteria and plants.

18. What is crop rotation and how does it help?

19. What are mycorrhizae?

20. What is the symbiotic relationship between mycorrhizae and plant roots?

21. Name the two types of mycorrhizae.

 (1).

 (2).

22. What is an epiphyte?