

## LESSON 4 - ASSIGNMENT

1. Using 3 examples (stating scientific and common names) briefly describe the characteristics of plants that are propagated by seed and those that are propagated vegetatively.

Why would you choose one method of propagation over the other?

What are the advantages and disadvantages of the two methods?

*(Write no more than half a page)*

2. Summarize the factors that can affect the success or failure of raising plants from seed.

- in containers in a protected environment and
- in the open.

What sort of conditions would be appropriate for raising seeds in a protected growing environment?

What aftercare is required for seeds sown in containers? What factors need to be considered for growing seed in the open and what aftercare is appropriate? (List at least 10 plants for each situation i.e. protected and open and their requirements)

*(Write no more than one page)*

3. Name two different methods for overcoming physical and physiological dormancy in seeds.

Write one sentence to briefly define each of these two methods.

4. Describe the seed harvesting techniques you used appropriate for one of the seed types you harvested in set task 1.

What are the seed storing conditions relevant to these seeds?

What effect could storage have on each of these seeds?

*(Write one paragraph only)*

5. Write approximately 500 words (in total) explaining procedures you would use to propagate a range of cuttings including at least one from each of the following categories:

- stem cuttings
- root cuttings
- leaf cuttings

Give named examples for each. Describe the equipment you require, the environmental requirements needed for each? How could improve the striking rate of these cutting? What aftercare you would give?

6. Describe a layering technique. What physiological factors need to be fulfilled to successfully propagate by layering? What after care is required?

If you prefer, answer this with labelled illustrations.

*(Answer this in half a page)*

7. Describe a methods you would use, and the conditions needed, to successfully propagate a plant by division, including the aftercare.

*(Write one paragraph only)*

8. Explain why budding and grafting are sometimes preferred as propagating techniques.

*(Answer in one or two sentences)*

9. Describe the type of health and safety practices that would be used in propagating plants and list ways that propagation practices can impact on the environment and methods of controlling this impact. *(Write no more than half a page)*

**Don't forget to submit your seven plant review sheets**