UNIVERSITI TEKNOLOGI MARA

FACULTY OF PLANTATION & AGROTECHNOLOGY

DIPLOMA IN PLANTING INDUSTRY MANAGEMENT

(AGR 232)

LAB PRACTICAL: 2(GRAFTING)

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INTRODUCTION

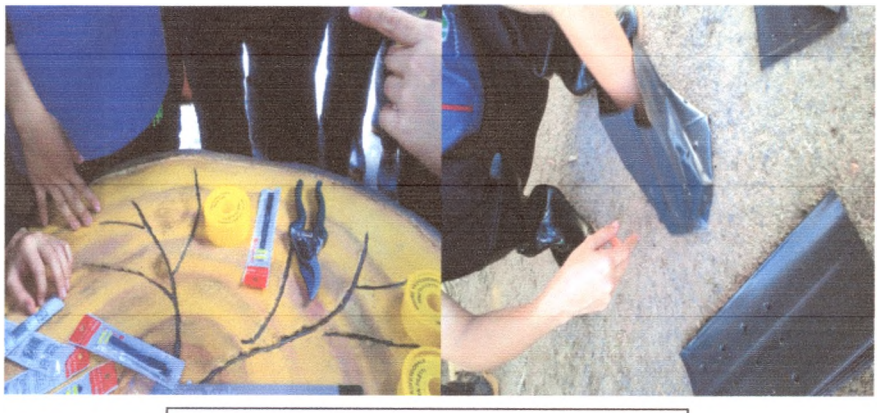
Grafting is the art of joining two pieces of living plant tissue together in such a manner that they will unite and subsequently grow and develop as one composite plant. Before do the grafting, the rootstock and scion must be placed in direct contact with that of the rootstock. The grafting operation must be done at a time when the rootstock and scion are in the proper physiological stage. After the grafting operation was completed, all cut surfaces must be protected from desiccation. For do the practical of grafting, were using the cleft grafting methods.

OBJECTIVE:

I. *Describe how grafting was used to propagate plants.*
II. Identify and explain the difference between the methods of grafting.
III. To know the technique of grafting.

MATERIAL:

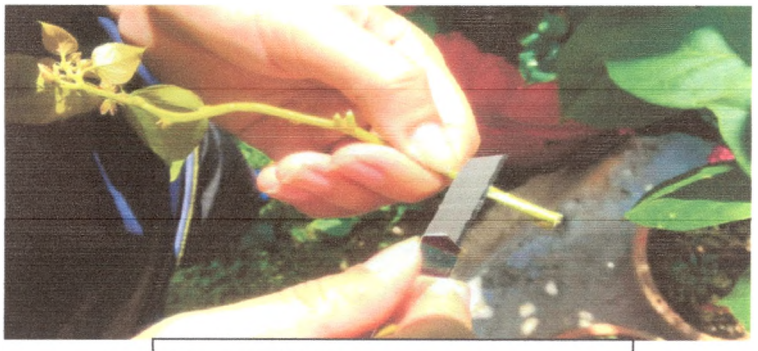
Secateur,Polythene tap,Grafting knife,Small plastic bag.



Material that was used for grafting

PROCEDURE:

1. Prepared the rootstock and scion.



Removed the

2. Making the cleft by splitting the rootstock.

Rootstock was split used grafting

3. Scion cut into "v "shaped wedge.

The scion was done prepared

4. Inserted the scions into the stock. The scions must be carefully placed so the cambium layers match.

The scion was inserted with

5. And then, stock and scion was tied together with plastic strip or budding rubber.

The scion and stock was wrapping used budding rubber

ADVANTAGES OF GRAFTING:

I. To shorten the time taken to first production of flower by the scion.
II. To create special and unusual plant forms, such as tree form shrubs and weeping-forms trees.
III. To give plant stronger, more diseased-resistant roots.
IV. To insert a different variety on part of the limbs of a tree for cross pollination.

RESULT:

The grafting was successful when the scion and rootstock was attached

DISCUSSION:

From the result, the grafting was successful done. We were creating special and unusual plants forms such as improved the variety to many of the limbs of the tree. For example, the flower has a different colour on the same trees. Besides that, grafting propagation was higher success rate.

CONCLUSION:

In the conclusion, we learned how to done the different asexual propagation such as grafting. We also learned methods to improve the varieties on the tree.