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FACULTY OF PLANTATION AND AGROTECNOLOGY

**DIPLOMA IN PLANTING INDUSTRY
MANAGEMENT(DPIM)**

AGR 232 :PLANT PROPAGATION

FINAL REPORT VIDEO ASSIGNMENT

(CLEFT GRAFTING)

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INTRODUCTION

Grafting is a horticultural technique whereby tissues of plants are joined so as to continue their growth together. The upper part of the combined plant is called scion while the lower part is called the rootstock. The success of this joining requires that the vascular tissue grow together and such joining is called inosculation. The technique is most commonly used in asexual propagation of commercially grown plants for the horticultural and agricultural trades.

In most cases, one plant is selected for its roots and this is called the stock or rootstock. The other plant is selected for its stems, leaves, flowers, or fruits and is called the scion. The scion contains the desired genes to be duplicated in future production by the stock/scion plant.

For successful grafting to take place, the vascular cambium ~~tissues of the stock and scion~~ plants must be placed in contact with each other. Both tissues must be kept alive until the graft has taken, usually a period of a few weeks. Successful grafting only requires that a vascular connection take place between the grafted tissues

Objectives of grafting :

1. To know what grafting is and how to work with it.
2. To make plant stem grafting correctly.
3. To produce a new plant using the cleft grafting techniques

Advantage of grafting

- Quick method of uniform propagation
- Plant with similar characteristics (color, fruit superiority etc.)
- Disease resistance especially in rootstock
- Greater ability of procedure to control outcome
- growth speed: its quicker than growing a whole new plant
- Pollination: some tree needs to cross-pollinate with another fruit tree or they won't be productive
- improve the plants or fruit quality

Disadvantage of grafting

- Higher susceptibility to epidemics
- complex: the process of grafting need some skill and proper technique
- limitation in succesful on plant after grafting process

CONCLUSION

As conclusion,we can identify on what is grafting and how to work with it,to make grafting correctly applied to plant stem and to produce a new plant using the cleft grafting techniques.Grafting also ca identify regions where there are no occupancy and correct yhe poor class which increased the accuracy.The extension to graft multiple branches at each leaf reduces the number of errors.However,the potential new branches have to be selected carefully to avoid increasing the error and failure cases.