



اَبُو سَيِّدِي تَتَكْوَلُو كِي مَبَارَا  
UNIVERSITI  
TEKNOLOGI  
MARA



**FACULTY OF PLANTATION & AGROTECHNOLOGY  
DIPLOMA IN PLANTING INDUSTRY MANAGEMENT**

**(AGR 232)**

**LAB PRACTICAL: 1(SEED GERMINATION)**

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## INTRODUCTION

Germination is the process of seeds developing into new plants. Environmental conditions must trigger the seeds to grow. Usually, this is determined by how deep the seed is planted, water availability and temperature. First, the seed grows a root to access water underground. Next, the shoots grow above ground, begin to appear. The seed sends a shoot towards the surface, where it will grow leaves to harvest energy from the sun. The leaves continue to grow towards the light source in a process called photomorphogenesis.

## OBJECTIVE:

- I. To determine the requirements of seeds to germinate and grow
- II. To know the parts of a seed
- III. To understand the process of seed germination

## MATERIAL:

Seed, top soil and polybag



Polybag

Soil mixture

Seed

## PROCEDURE:

1. Prepared the soil mixture in the polybag



2. Then, done for plant seeds.



## Advantages of seed germination:

- Reduce the cost.
- Dormant seeds were unable to germinate even when the condition for germination are favorable.
- Seed germination often result in plant with superior qualities than vegetative propagation.
- Seeds do not necessarily need water to germinate and grow.

RESULT:

On first day



Done for plant seeds

Day 7



The seed coat splits the embryo root begin to grow

Day 13



The main stem grows on opposite direction of the

## DISCUSSION:

From the result that we get, seed germination was slow to germinate. It will take times to germinate. This because, maybe the environmental condition and type of seeds was effect during the germinates.

## CONCLUSION:

In conclusion, we were learned the process how the seed was germinating. We also learned how to taking care the seeds until it germinates.