

# JOB ROLE – FLORICULTURIST (PROTECTED CULTIVATION)

Sector – Agriculture

(Qualification Pack Code: AGR/Q0702)



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# **UNIT 1: INTRODUCTION TO PROTECTED CULTIVATION**

## **Session 1: Importance of Protected Cultivation**

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# Session Objectives

The students will be able to:

- Explain protected cultivation;
- Describe limitations of protected cultivation; and
- Scope of protected cultivation

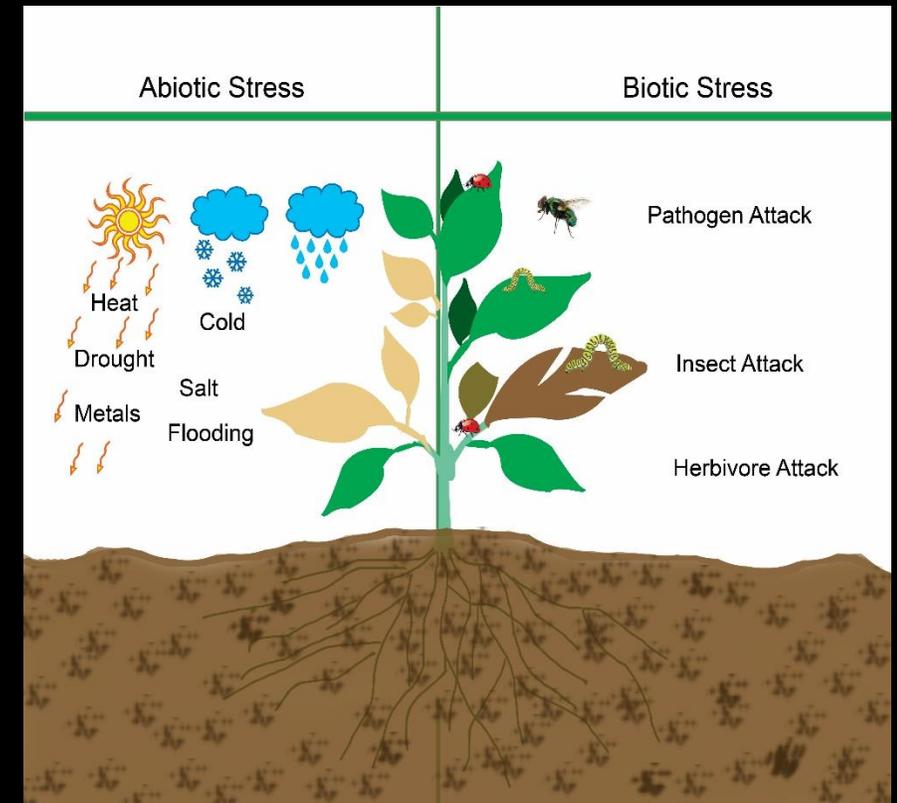
# Introduction

Protected cultivation is a process of growing crops in a controlled environment. This means that the temperature, humidity, light and such other factors can be regulated as per requirement of the crop. This assists in a healthier and a larger produce. Greenhouses or Polyhouses are being commercially used for production of exotic (non-native) and off-season vegetables, export-quality cut flowers and also for raising quality seedlings. Economic returns from the high value agricultural produce can be increased substantially when grown under greenhouse conditions.

A Floriculturist (Protected Cultivation) is a person who has undertaken various activities of flower cultivation involving preparatory cultivation, cultivation and post harvest management in a greenhouse.

# Objectives of Protected Cultivation

- Control abiotic and biotic stresses
- **Abiotic stress**- Cold/hot wind, high rainfall, temperature and excess/lack of water
- **Biotic stress**- Insect-pest and disease incidence



# Objectives of Protected Cultivation

- Efficient use of water
- Enhancing the productivity per unit area
- Grow crops round the year

# Scope of Protected Cultivation

- Opportunity to produce off season nursery, vegetables and flowers
- Production of exotic and export quality flowers and vegetables
- Provide livelihood security to the farmers
- Higher economic returns per unit area

# Suitable Crops for Protected Cultivation

Flowers	Rose, Gerbera, Carnation, Liliun, Orchids, Chrysanthemum
Vegetables	In-derminate tomato, cherry tomato, capsicum, cucumber and leafy vegetables
Fruits	Strawberry
Seedling and Nurseries	Seedlings of all vegetables, flowers and fruits plant nurseries with different propagation method

# Limitations of Protected Cultivation

- High initial investment
- Non-availability of trained human resource and material
- Lack of technical knowledge
- Require regular care and maintenance

# Summary

In this session, you have learnt about the objectives of protected cultivation, scope of protected cultivation and limitations of protected cultivation.

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