



Genetic Improvements Crops EAG 312-2

Instructions

Answer all questions

No. of questions : Three (03)

No. of pages : Two (02)

Total marks allocated : 60%

Time : One hour (1hr)

Index No:

Part II - Essay

Question 1

- I. What is a hybrid variety? (3 Marks)
- II. What are the different genetically control pollination systems that can be used in hybrid seed production? (7 Marks)
- III. Explain the use of one genetically control pollination system in hybrid seed production of one of the following crops; rice / tomato/ brinjal / capsicum / maize. (10 Marks)

Question 2

- I. What is a clone? (3 Marks)
- II. What are the different breeding approaches practiced for the improvement of asexually propagated crops? (7 Marks)
- III. Discuss the advantages and the limitations of asexually propagated crops in crop improvement. (10 Marks)

Question 3

I. What is a molecular marker?

II. Discuss advantages of molecular markers over other types of markers.

(7 Marks)

III. Explain "Gene pyramiding achieved using marker assisted selection".

(10 Marks)