

End Semester Examination September / October 2013
Year II Semester II

Basic Genetics (EAG 213- 2)

Instructions

Answer All questions.

No. of questions : Two (02)

No. of pages : One (01)

Total marks allocated : 50%

Time : One hour (1hr)



PART III - ESSAY

Question 1

(25 Marks)

Most of the useful and economical traits of crops are governed by polygenes. Those quantitative traits are multifactorial traits on which environment is having high impact. Therefore, estimation of heritability of such traits are very important in plant breeding. Discuss the use of Heritability Estimates in plant breeding.

Question 2

(25 Marks)

Polyploidy is a common phenomenon in plants and having advantages in agriculture because some of the edible fruits are due to polyploidy occurred naturally in plants, but in animals polyploidy is rarely occurred. Explain the applications of Polyploidy in agriculture.