

**RANIGANJ GIRLS' COLLEGE**

**MODEL QUESTIONS-I**

**BOTANY [HONOURS]**

**SEMESTER-V**

**PAPER- DSE II (Plant breeding)**

**Course code:**

**F.M: 40**

**Time: 2 Hours**

**The figure in the right-hand margin indicates marks.**

**Candidates are required to give their answer in their own words as far as practicable.**

1. Answer any five questions of the following: 1×5=5
  - (a) Name one introduced wheat variety
  - (b) Define domestication.
  - (c) What do you mean by tagging.
  - (d) What is polygenic inheritance
  - (e) Give one achievement of heterosis.
  - (f) Write one advantage of pure line selection.
  - (g) What do you mean by clonal selection..
  
2. Answer any five questions of the following: 2×5=10
  - a. Define aacclimatisation.
  - b. Write the difference between primary and secondary introduction
  - c. Define inbreeding depression
  - d. Define mutation breeding.
  - e. Write two roles of Biotechnology in crop improvement.
  - f. What is monogenic inheritance and how it is differ from polygenic inheritance.
  - g. What is recurrent selection ?
  
3. Answer any three questions of the following: 5×3=15

- (a) Write the steps involved in mass selection.
- (b) Write the inheritance pattern of skin colour of Human being.
- (c) Write the application of heterosis.
- (d) What do you mean by distant Hybridization
- (e) Write the genetic basis of inbreeding depression.

4. Answer any one questions of the following:

10×1=10

- (a) Write the roles of Polyploidy in crop improvement.
- (b) Write the manifestation of heterosis. What is heterobeltiosis.
- (c) Write the steps involved in pure line selection. Write its demerits. 6+4