

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: GPB 366	Title	: Crop Improvement - II (<i>Rabi</i> crops)		
Credits	: 2 (1+1)				
Day & Date	: Tuesday, 11.07.2023	Time	: 14:00 to 16:00 hrs.	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Describe in detail hybridization techniques in Mango. Give constraints encountered in Mango hybridization.
- Q.2 Describe the floral biology of Chickpea. Write its breeding objectives.
- Q.3 Define stability. Enlist the different models of stability and explain Eberhart and Russell model.
- Q.4 Give the centre of origin and scientific names of the following crops:
a) Maize b) Cotton c) Mustard d) Sunflower
- Q.5 Define gene pool. Describe various methods of germplasm conservation.
- Q.6 Give the information of Sugarcane and Linseed on the following points:
a) Wild relatives b) Mode of pollination c) Improved varieties d) Inflorescence
- Q.7 Define ideotype. Describe the plant ideotype for Wheat.
- Q.8 Enlist the different breeding methods used in Sunflower. Write about the head to row and remnant seed method used for increasing the oil content in Sunflower.
- Q.9 Enlist the different cultivated species of Wheat along with its chromosome numbers. Describe the multiline development in Wheat.
- Q.10 Write short notes on (Any Two):
a) Mutation b) NBPGR c) Primary gene pool

SECTION 'B'

- Q.11 Define the following terms:
1) Isolation distance 2) Rouging 3) Plant introduction 4) Seed
- Q.12 Fill in the blanks:
1) The botanical name of Linseed is _____.
2) In Bajra, cross pollination occurs due to _____ condition.
3) Male part of maize is known as _____.
4) The full form of PPVFR is _____.

