MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: H/FL 364	Title	: Breeding and Seed Production of Ornamental Plants		
Credits	: 3 (2+1)				
Day & Date	: Friday, 07.07.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

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 Write in brief objectives of breeding in ornamental crops.

Q.2 Write in short history of breeding in floricultural crops.

Q.3 What is plant introduction? Give its types and advantages.

Q.4 Write in brief procedure of hybridization followed in ornamental crops.

Q.5 Write in brief types of mutation on the basis of origin. State examples of mutagens and general characteristics of mutation.

Q.6 Give basic steps in the seed production of open-pollinated varieties in flower crops.

Q.7 Write short notes on:

a) Breeding approaches for disease resistance b) Sources of diseases resistance

Q.8 Write in short achievements in Chrysanthemum through various breeding methods.

Q.9 Write in brief varietal improvement in Gladiolus through different breeding methods.

Q.10 Write in short varietal improvement in Rose through different breeding methods.

SECTION 'B'

Q.11 Fill in the blanks:

1) The first artificial hybrid, _____ was prepared by crossing Sweet William with Carnation in 1717.
2) The variety _____ is a spontaneous mutant of Coreopsis.
3) _____ is the first ever hybrid Tea variety in Rose.
4) 'PDKV Ragini' is the variety of Chrysanthemum, developed through _____ breeding method.
5) _____ has raised first Indian Rose variety 'Dr. S.D. Mukherji' in 1935.
6) _____ is a cultivar of Rose having unusual chocolate brown colour.
7) Petunia is a member of _____family.
8) The ICAR-NRC for Orchid is located at _____.

Q.12 Spell-out the following abbreviations:

1) DFR 2) NBPGR 3) NBRI 4) IIHR
5) NRC 6) IARI 7) CMS 8) GMS

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