MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hort.)

Semester	: VI (New)	Term	: II	Academic Year	: 2015-16
Course No.	: H/FL 365	Title	: Breeding and Seed Production of Ornamental Crops		
Credits	: 2 (1+1)				
Day & Date	: Tuesday, 26.04.2016	Time	: 09.00 to 11.00	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 diagrams wherever necessary.

SECTION "A"

Q.1 What is heterosis. Write about the important features of heterosis.

Q.2 What is male sterility? What are the different types of male sterility? Write about the role of male sterility in developing F_1 hybrids.

Q.3 Discuss with examples two crop improvement methods used in chrysanthemum.

Q.4 Write in detail objectives of ornamental plant breeding.

Q.5 Write about major steps in production of open pollinated quality seed.

Q.6 Discuss with examples two crop improvement methods utilized in rose.

Q.7 State the various techniques used in ornamental plant breeding along with criteria for selection of technique.

Q.8 Write short notes on (Any two).

1) Write different classes of seeds.

2) Breeding objectives in chrysanthemum.

3) Seed certification and its objectives.

Q.9 What is mutation? Enlist various mutagens? Write merits and demerits of mutation breeding.

Q.10 Define plant introduction, types of introduction. State merits and demerits of introduction.

SECTION "B"

Q.11 Give full form of the following.

1) SSCA

2) IARI

3) NSC

4) NBPGR

Q.12 Fill in the blanks.

1) Mayur cultivator of gladiolus was developed at IARI.

2) The agent used for inducing mutation is called _____.

3) The artificial cross pollination between two species of same genus is called _____.

4) Removal of immature anthers from bisexual flowers is called _____.

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