MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hort.)

Semester	: VI (New)	Term	: II	Academic Year	: 2016-17
Course No.	: H/FL 365	Title	: Breeding and Seed Production of Ornamental Crops		
Credits	: 2 (1+1)				
Day & Date	: Saturday, 29.04.2017	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.

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SECTION "A"

Q.1 Write scope and importance of ornamental plant breeding

Q.2 Discuss the breeding objectives of ornamental crops.

Q.3 Explain in brief methods of breeding for disease resistance.

Q.4 Define mutation. Describe the procedure of mutation breeding.

Q.5 Discuss in brief various techniques for production of F_1 hybrid seeds in flower crops.

Q.6 Explain in detail seed production technique in chrysanthemum.

Q.7 Write short notes on (Any two).

1) Condition and mechanism of self pollination
2) Male sterility
3) Tissue culture

Q.8 Describe in short the steps followed in development of hybrid in Rose.

Q.9 Define seed viability. Describe in detail Tetrazolium test.

Q.10 Discuss in brief harvesting, processing and storage of seeds.

SECTION "B"

Q.11 Define the following terms.

1) Biotic stress
2) Hybridization
3) Self-incompatibility
4) Roughing

Q.12 Fill in the blanks.

1) The condition in which androecium mature first than gynoecium is called protandry.
2) Isolation distance helps in maintenance of p.g. purity.
3) Rajat Rekha mutant of tuberose was developed at NBRI, Lucknow
4) Japan produced the first commercial F_1 hybrids in _____ flower crop.

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