MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: **IV (New)**	**Term**	: **II**	**Academic Year**	: **2018-19**
Course No.	: H/FS 246	**Title**	: **Breeding of Fruit and Plantation crops**		
Credits	: 3 (2+1)				
Day & Date	: Thursday, 02.05.2019	**Time**	: 14.00 to 17.00	**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 diagrams wherever necessary.

SECTION "A"

Q.1 Describe in brief the importance and scope of breeding of fruit and plantation crops in India.

Q.2 Discuss achievements in guava by different methods of breeding.

Q.3 What is self- incompatibility? Write in detail types of self-incompatibility observed in fruit crops with examples.

Q.4 Enumerate breeding objectives and crop improvement in coconut.

Q.5 Define centre of origin. List the various centers of origin of fruit crops with examples.

Q.6 Enlist *In-vitro* breeding tools in fruit plantation crops. Write achievements in fruit crops through mutation breeding.

Q.7 Write in brief breeding strategies of following fruit crops (Any Two).

a) Coffee b) Banana

c) Pomegranate

Q.8 Describe in brief crop improvement in mango with suitable examples.

Q.9 Write achievement made through breeding in ber and cashew nut fruit crops.

Q.10 Complete the following table.

Crop	Chromosome number	Breeding objective	Limitations in breeding	Improved varieties
Apple				
Oil Palm				

SECTION "B"

Q.11 Define the following terms.

1) Introduction
2) Homozygous
3) Emasculation
4) Back cross
5) Hybrid vigour
6) Male sterility
7) Embryo culture
8) Line

(P.T.O.)

agromind.in

Telegram - AgroMind

SECTION "B"

Q.11 Match the following pairs.

1) Carnation	a) *Callistephus chinensis*
2) Rose	b) Suckers
3) Jasmine	c) *Tagetes erecta*
4) Gladiolus	d) *Dianthus caryophyllus*
5) Dahlia	e) Iridaceae
6) Chrysanthemum	f) Oleaceae
7) African Marigold	g) La France
8) China Aster	h) Tubers

Q.12 Fill in the blanks.

1) Corn flag is a common name of _____.
2) Crossandra belongs to family_____.
3) _____rootstock is used for budding of Rose.
4) Tuberose is originated in _____.
5) _____ has been found beneficial to reduce the population of root knot nematodes.
6) Cattleya and cymbidium are the types of _____.
7) Raktagandha is the popular cultivar of _____.
8) Araceae is a family of _____.

✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧ ✧

agromind.in

Telegram - AgroMind