MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: **IV (New)**	Term	: **Second**	Academic Year	: **2021-22**
Course No.	: **H/FS 246**	Title	: **Breeding of Fruit and Plantation Crops**		
Credits	: **3 (2+1)**				
Day & Date	: **Monday,12.09.2022**	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 Define fruit breeding. Discuss the breeding objectives in fruit crops with suitable examples.

Q.2 Discuss in brief about mango hybrids developed in India.

Q.3 Explain the problems of crop improvement and hybrid development in banana.

Q.4 Write short notes on (Any Two):

a) Inheritance of characters in guava b) Centers of origin

c) *In vitro* breeding tools

Q.5 Give the breeding objectives in ber and aonla.

Q.6 Write in detail about the breeding objectives in grape with suitable examples.

Q.7 Give important breeding achievements in respect of the following crops:

a) Sapota b) Coconut

Q.8 Give in short varietal improvement in pomegranate.

Q.9 Write in short about apomixis and nuceller polyembryony in citrus.

Q.10 Give in short varietal improvement in arecanut and cashewnut.

SECTION 'B'

Q.11 Define the following terms:

1) Back cross 2) Clone 3) Anthesis 4) Mutation

5) Haploid 6) Polyembryony 7) Heritability 8) Self incompatibility

Q.12 Fill in the blanks:

1) The family of sweet orange is _____.

2) _____ type of ovary is present in papaya.

3) Hybrid variety of sapota 'DHS-2' is a cross between _____.

4) Chromosome number of custard apple is _____.

5) Variety of coffee 'Chandragiri' is introduced from the country_____.

6) Improved tea clone 'Jayram' is also known as_____.

7) Coconut is mainly a _____ -pollinated crop.

8) _____ is the variety of mango developed at MPKV for preparation of pickles.

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