MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: IV (New)	Term	: Second	Academic Year	: 2023-24
Course No.	: H/FS 246	Title	: Breeding of Fruit and Plantation crops		
Credits	: 3 (2+1)				
Day & Date	: Monday, 15.04.2024	Time	: 9:00 to 12:00 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 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 Write about problems associated in Banana breeding. State breeding strategies for its crop improvement.

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

Q.5 Discuss various centers of origin of fruit crops with examples.

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

Q.7 Write in brief breeding strategies of the following fruit crops:
a) Coffee
b) Pomegranate

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

Q.9 Write achievements made through breeding in Ber and Cashew nut fruit crops.

Q.10 Complete the following table:

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

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SECTION 'B'

Q.11 Define the following terms:

1) Hermaphrodite
2) Homozygous
3) Inbred line
4) Metaxenia
5) Hybrid vigour
6) Male sterility
7) Embryo culture
8) Heritability

Q.12 State True or False and if False, correct it.

1) Peaches have lowest chilling requirement among temperate fruits.
2) 'Medjool' is an important variety of Rubber.
3) Pears dried with or without stone are referred as prunes.
4) Papaya crop is highly sensitive to water logging conditions.
5) 'Nendran' is a dual purpose variety of Banana.
6) Polyembryony is commonly seen in Acid Lime.
7) Strawberry is a short day plant.
8) The variety 'Mangla' is an introduction from China.

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