

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: III (New)	Term	: First	Academic Year	: 2022-23
Course No.	: II/FS 233	Title	: Tropical and Subtropical Fruits		
Credits	: 3(2+1)	Time	: 9:00 to 12:00 hrs.	Total Marks	: 80
Day & Date	: Wednesday, 01.02.2023				

- 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 Write in brief cultivation of mango on the following points:
- a) Propagation and planting
 - b) Irrigation management
 - c) Harvesting indices
 - d) Packaging and storage
- Q.2 Explain in brief cultivation of sweet orange on the following aspects:
- a) Soil and climate
 - b) Nutrient management
 - c) Training and pruning
 - d) Postharvest management
- Q.3 Write in detail on cultivation of sapota on the following points:
- a) Soil and climate
 - b) Varieties
 - c) Nutrient management
 - d) Harvesting and storage
- Q.4 Explain in detail scope and importance of fruit growing in Maharashtra.
- Q.5 Write short notes on (Any Two):
- a) Horticultural zones of Maharashtra
 - b) Rainfed horticulture
 - c) Spongy tissue in mango
- Q.6 Write in detail cultivation of pineapple on the following points:
- a) Soil and climate
 - b) Varieties
 - c) Use of growth regulators
 - d) Harvesting indices
- Q.7 Write in detail cultivation of banana on the following points:
- a) Propagation and planting
 - b) Mattocking
 - c) Irrigation and weed management
 - d) Seediness
- Q.8 Write in brief about practices in grape cultivation on the following points:
- a) Rootstock
 - b) Propagation and planting
 - c) Bud forecasting
 - d) Storage

(P.T.O.)

Q.9 Write in detail cultivation of papaya on the following points:

- a) Propagation and planting b) Sex determination
- c) Latex extraction d) Harvesting and yield

Q.10 Write in detail about special problems of the following fruit crops:

- a) Citrus decline b) Alternate bearing in mango

SECTION 'B'

Q.11 State True or False:

- 1) *Nephelium lappaceum* is commonly known as rambutan.
- 2) Purple passion fruit is less productive than yellow.
- 3) Avocado varieties of the Mexican race and its hybrids are well adapted to the cool climates.
- 4) Star fruit is native to India.
- 5) Bread fruit is propagated by seed.
- 6) Fig is a gynodioecious species and some female types need pollination; while others set fruits parthenocarpically.
- 7) Ber can withstand extremely hot conditions; but is susceptible to frost.
- 8) Custard apple is an evergreen tall woody shrub.

Q.12 Fill in the blanks:

- 1) Tamarind is a crop of _____ zone.
- 2) Kagzi Gonda is a variety of _____.
- 3) *Syzygium jambos* is commonly known as _____.
- 4) Aonla belongs to _____ family.
- 5) High incidence of fruit cracking is observed in _____ bahar of pomegranate.
- 6) Metaxenia is common in _____.
- 7) Arka Mridula is a variety of _____.
- 8) Rose Scented is a variety of _____.

