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**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END EXAMINATION**

**B.Sc. (Hons.) Horticulture**

<b>Semester</b> : III (New)	<b>Term</b> : I	<b>Academic Year</b> : 2018-19
<b>Course No.</b> : H/FS 233	<b>Title</b> : Tropical and Subtropical Fruits	
<b>Credits</b> : 3 (2+1)	<b>Time</b> : 9.00 to 12.00	<b>Total Marks</b> : 80
<b>Day &amp; Date</b> : Monday, 12.11.2018		

- 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 Write in detail about mango on the following points.
- a) Climate and soil
  - b) Flowering, fruit set and fruit drop
  - c) Harvesting and yield
  - d) Mango malformation
- Q.2 Define rainfed horticulture. What is dry climate? Write in detail about commercial importance of arid fruit crops.
- Q.3 Write in brief cultivation of guava the following points.
- a) Propagation and planting
  - b) Nutritional management
  - c) Varieties
  - d) Postharvest handling and storage
- Q.4 Write importance and scope of tropical and subtropical fruit crops in India.
- Q.5 Write short notes (Any Two).
- a) Alternate bearing in mango
  - b) Classification of fruits based on climate adaptability
  - c) Citrus decline
- Q.6 Describe the cultivation of banana on the given points.
- a) Soil and climate
  - b) Seediness in banana
  - c) Characters of *Musa accuminata* and *Musa balbisiana*
  - d) Important cultural practices
- Q.7 Write in detail cultivation of papaya on the given points.
- a) Propagation and sowing
  - b) Flowering and fruit set
  - c) Sex determination
  - d) Papain extraction
- Q.8 Write in brief about practices in grape cultivation on the following points.
- a) April pruning
  - b) October pruning
  - c) Use of growth regulators
  - d) Bud forecasting

(P.T.O.)

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

- a) Importance and uses
- b) Propagation and planting
- c) Irrigation and intercultural practices
- d) Harvesting and yield

Q.10 Explain in brief cultivation of pomegranate on the following points.

- a) Flowering and fruit set
- b) Training and pruning
- c) Bahar treatment
- d) Fruit cracking

#### SECTION "B"

Q.11 State True or False.

- 1) Nagpur mandarin is the finest mandarin grown in the world.
- 2) Carambola is cauliflorous in nature.
- 3) Jackfruit belongs to family Anacardiaceae.
- 4) Pineapple is dicotyledonous in nature.
- 5) Origin of custard apple is Tropical America (Mexico).
- 6) Litchi is a single seeded nut.
- 7) Ficin is active compound present in fig.
- 8) Time of fruit bud differentiation in aonla is March-April.

Q.12 Fill in the blanks.

- 1) Botanical name of avocado is \_\_\_\_\_.
- 2) Metaxenia is common in \_\_\_\_\_.
- 3) \_\_\_\_\_ is the richest source of Vit-B (Riboflavin).
- 4) *Eriobotrya japonica* is the botanical name of \_\_\_\_\_.
- 5) \_\_\_\_\_ is the best time for pruning of ber.
- 6) Origin of durian is \_\_\_\_\_.
- 7) Rambutan belongs to family \_\_\_\_\_.
- 8) \_\_\_\_\_ is a micronutrient loving plant.

