

**Model Answer**  
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**SEMESTER END EXAMINATION**  
**B.Sc. (Hons.) Agriculture**

Semester	: IV (New)	Academic Year	: 2020-21
Course No.	: HORT-243	Title	: Production Technology for Fruit and Plantation Crops
Credits	: 2 (1+1)		
Day and Date	: 22.11.2021	Time	: 1 Hour
		Total Marks	: 40

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- Note :
1. **Solve ANY FOUR questions from SECTION-A**
  2. **Solve ANY SIX questions from SECTION-B**
  3. **ALL questions from SECTION-C are compulsory**
  4. **Send the PDF file of answer sheet to the email id of respective course teacher**
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**SECTION – “A”**

**(Write the answers in 4-5 sentences only. Each question carries 4 marks)**

**Q.1 Write in short about importance of fruit and plantation crops in India.**

**Ans:** Fruits are Protective food supply vitamins, carbohydrates, fats, minerals, Antioxidant, economic importance, export, demand in processing industries, Employment generation, waste land utilization

**Q.2 Write cultivation of mango on the following points.**

- |                            |                                    |
|----------------------------|------------------------------------|
| <b>a) Soil and climate</b> | <b>b) Propagation and planting</b> |
| <b>c) Varieties</b>        | <b>d) Harvesting and yield</b>     |

**Ans:** Soil : Soil medium, well drained, medium black soil, Climate : Tropical fruit climate with temperature 24 to 27<sup>0</sup>C, annual rainfall 60 to 80 cm, Varieties : Langra, Dashari, Alphonso, Pairi, Totapuri, Harvesting and Yield : Harvesting is started after 6<sup>th</sup> year of planting. The average 10 year old tree bears 400 to 600 fruits

**Q.3 Write in detail cultivation of cashewnut on the following points.**

- |                              |                                    |
|------------------------------|------------------------------------|
| <b>a) Soil and climate</b>   | <b>b) Propagation and planting</b> |
| <b>c) Improved varieties</b> | <b>d) Harvesting and yield.</b>    |

**Ans :** Soil : Lomas and sandy loam soil. Climate: Tropical warm humid climate grow in temperate range of 24 to 37<sup>0</sup>C. Improved varieties: Vengurla 1, Vengurla 2, Harvesting is started after 5 years and yield is differ from field to field and it is in range between 20 to 75 kg/ha.

**Q.4 Write short notes on following.**

- |                              |                                    |
|------------------------------|------------------------------------|
| <b>a) Varieties of apple</b> | <b>b) Varieties of pomegranate</b> |
|------------------------------|------------------------------------|

**Ans :** Varieties of apple: Red Delicious, Royal delicious, Baldwin, Richred, Golden delicious  
Varieties of Pomegranate: Bhagwa, Super Bhagwa, Ganesh, Alandi, Ruby

Q.5. Write cultivation of banana on the following points.

a) Origin      b) Improved varieties      c) Propagation      d) yield

Origin : Tropical Asia ,Improved Varieties : Grand Naine,Nendran,Poovan, Propagation by suckers Yield is 30 to 40 m.tonnes/ha

### SECTION 'B'

**(Write the answers in one sentence only. Each question carries 2 marks)**

Q 6. Define the following terms (Any Six)

1. **Tropical Fruit:** Tropical fruits are defined as fruits that are grown in hot and humid regions with there not much difference in day and night temperature eg : Banana, Pineapple, Cashew nut
2. **Subtropical Fruit :** Subtropical fruit crops are characterized by relatively poor winter hardiness and with stand in different degree of day and night temperature eg : Litchi, Guava, Pomegranate
3. **HDP :** HDP is defined as the accommodation of maximum number of plants per unit area. In HDP planting of trees at closer spacing.
4. **Temperate fruit:** Temperate fruits are those fruits which required chilling temperature for their growth and fruit bud differentiation ( $0^{\circ}\text{C}$  to  $07^{\circ}\text{C}$ ).
5. **PGR:** PGR are the chemicals used in very minute quantity for growth, development, yield and quality of fruit in different horticultural crops.
6. **Training :** Training is method applied in different horticultural plants for giving frame works to plant to develop canopy for carried out different intercultural activities easily.
7. **Pruning:** Pruning is removal of unwanted, dried branches from the plant for getting more nutrients to fruiting area.

### SECTION 'C'

**(Choose the correct option. Each question carries 1 mark)**

Q.7. Solve all the following multiple choice questions

1	Banana is propagated by			
	a)	Seed	b)	<u>Suckers</u>
	c)	Corms	d)	Cutting
2	Rough lemon rootstock used in propagation of			
	a)	Pomegranate	b)	Litchi
	c)	Apple	d)	<u>Citrus</u>
3	Bhagwa and Super Bhagwa are the varieties of			
	a)	Apple	b)	<u>Pomegranate</u>
	c)	Mango	d)	Ber
4	Litchi is classified as			
	a)	<u>Subtropical fruit</u>	b)	Plantation crop
	c)	Temperate fruit	d)	Tropical fruit

5	Mango belongs to family			
	a)	Rutaceae	b)	<b><u>Anacardiaceae</u></b>
	c)	Rosaceae	d)	Malvaceae
6	Commercial propagation method of papaya is			
	a)	<b><u>Seed</u></b>	b)	Suckers
	c)	Leaf	d)	Budding
7	Katol Gold is a variety of			
	a)	Guava	b)	<b><u>Sweet orange</u></b>
	c)	Ber	d)	Tamarind
8	Lucknow-49 is a variety of			
	a)	Ber	b)	Mango
	c)	Plum	d)	<b><u>Guava</u></b>
9	Golden Delicious is a variety of			
	a)	<b><u>Apple</u></b>	b)	Pear
	c)	Peach	d)	Grape
10	The Botanical name of cashew nut is			
	a)	<b><u>Anacardium occidentale</u></b>	b)	<i>Anacardium japonica</i>
	c)	<i>Anacardium oxyflora</i>	d)	<i>Mangifera indica</i>
11	Thompson seedless is a variety of			
	a)	Apple	b)	Plum
	c)	Litchi	d)	<b><u>Grape</u></b>
12	Rubber and Tea are classified as			
	a)	<b><u>Plantation crops</u></b>	b)	Temperate crops
	c)	Spices crops	d)	Condiments crops