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Horticulture Short Notes by Agriguru



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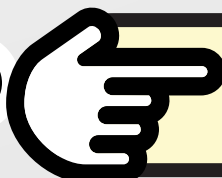
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Horticulture Short Notes for IBPS AFO, RRB SO & NABARD



Aspect	Details
Definition	The term "Horticulture" is derived from two Latin words: "Hortus" meaning garden or enclosure and "Cultura" meaning cultivation. Hence, horticulture means garden culture or culture of garden crops.
Relation to Agriculture	Horticulture is a part of agriculture focused on raising garden crops, whereas agriculture broadly includes the technology of raising plants and animals.
Historical Context	- Staple crops like paddy, maize, and wheat were traditionally grown in open fields on a large scale.

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Aspect	Details
	- Crops of special interest such as fruits, vegetables, and flowers were grown in backyards or protected enclosures.
Modern Context	- Today, fruits, vegetables, and flowers are grown both in backyards and on a commercial scale in open fields. - Modern horticulture includes fruits, vegetables, flowers, spices, condiments, plantation crops, medicinal, and aromatic plants.
Definition (Modern)	Modern horticulture is a part of agricultural science that deals with the production, utilization, and improvement of fruits, vegetables, flowers, ornamentals, plantation crops, medicinal, and aromatic plants.

Divisions of Horticulture

Division	Description
Fruits	Cultivation and improvement of various fruit crops.
Vegetables	Cultivation and improvement of various vegetable crops.
Flowers	Cultivation and improvement of flowers and ornamental plants.

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Division	Description
Plantation Crops	Cultivation and improvement of crops grown on plantations, such as tea, coffee, and rubber.
Spices and Condiments	Cultivation and improvement of spice and condiment crops.
Medicinal and Aromatic Crops	Cultivation and improvement of medicinal and aromatic plants.
Ornamental Gardens and Parks	Planning, raising, and maintaining ornamental gardens and parks.
Shade and Avenue Trees	Raising trees for shade and avenue purposes.
Seed and Planting Material	Raising and maintaining seed and planting materials for horticultural crops.
Utilization of Horticultural Produce	Processing and utilizing horticultural produce for various purposes.
Improvement of Horticultural Crops	Research and development aimed at improving the yield, quality, and resistance of horticultural crops.

Divisions and Sub-Divisions of Horticulture

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Division	Description	Examples
Pomology	Study or cultivation of fruit crops. Derived from "Pomum" (fruit) and "Logos" (discourse or study).	Mango, Sapota, Guava, Grape, Banana
Fruit	Developed and matured ovary, generally eaten raw.	
Olericulture	Cultivation of vegetables. Derived from "Oleris" (potherb) and "Cultra" (cultivation).	Brinjal, Okra, Tomato, Pumpkin
Vegetable	Any part of a herbaceous plant used as a principal part of a meal after cooking.	
Floriculture	Study and cultivation of flower crops. Derived from "Florus" (flower) and "Cultra" (cultivation).	

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Division	Description	Examples
Commercial Floriculture	Cultivation of flower crops on a commercial scale for profit.	Rose, Jasmine, Carnation, Aster, Marigold
Ornamental Floriculture	Raising flower crops for ornamental, pleasure, and fashion purposes.	Dahlia, Zinnia, Cosmos, Hibiscus, Balsam, Nerium, Poinsettia, Hollyhock, Gerbera, Gaillardia
Arboriculture	Raising perennial trees for shade, avenue, or ornamental purposes.	Polyalthia, Spathodea, Cassia, Gulmohar
Plantation Crops	Crops cultivated on an extensive scale in large areas, processed before utilization.	Coffee, Tea, Rubber, Coconut, Cocoa
Spices and Condiments	Cultivation of crops for seasoning and flavoring dishes.	
Spices	Plants used as food adjuncts to add aroma and flavor.	Pepper, Cardamom, Clove, Cinnamon, Allspice

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Division	Description	Examples
Condiments	Plants used as food adjuncts to add taste.	Turmeric, Ginger, Red chilies, Onion, Garlic
Medicinal and Aromatic Plants	Cultivation of plants providing drugs and essential oils.	
Medicinal Plants	Plants rich in secondary metabolites used for drugs.	Periwinkle, Opium, Fenugreek, Cinchona, Dioscorea Yam, Belladonna, Senna, Rauwolfia, Ashwagandha, Tulasi
Aromatic Plants	Plants possessing essential oils.	Lemon grass, Citronella, Palmarosa, Vetiver, Geranium, Davana, Lavender
Fruit Technology	Processing and preservation of horticulture produce.	
Landscape Gardening	Planning and execution of ornamental gardens, parks, and landscape gardens.	

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Division	Description	Examples
Nursery and Seed Production	Production of seeds and planting material of horticulture crops on a commercial basis.	
Aesthetic Value Plants	Plants grown for their aesthetic value are also included in horticulture.	

Role of Horticultural Crops in Human Nutrition

Nutrient	Role in Human Health	Sources (Fruits)	Sources (Vegetables)
Vitamins	Indispensable part of human diet, essential for maintenance of health. Deficiency leads to various health disorders.		
Vitamin A	Essential for normal growth, reproduction,	Mango, Papaya, Dates,	Palak, Spinach, Amaranthus, Fenugreek,

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	maintenance of health, protection against cold, influenza, and prevents night blindness. Deficiency results in cessation of growth in children, night blindness, skin eruptions, and brittle teeth.	Jackfruit, Walnut	Carrot, Cabbage, Lettuce, Peas, Tomato
Vitamin B1 (Thiamine)	Tones nervous system, helps digestive tract function. Deficiency leads to Beriberi, paralysis, heart enlargement, loss of appetite, weight, and body temperature.	Orange, Pineapple, Jackfruit, Cashew nut, Walnut, Dry Apricot, Almond, Banana	Green Chilli, Beans, Onion, Sweet Potato, Red Tomato, Leaves of Colocasia
Vitamin B2 (Riboflavin)	Required for body growth and skin health.	Bael, Papaya, Litchi, Banana,	Cabbage, Cauliflower, Potato, Peas,

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	Deficiency causes sore throat, anorexia, cataract, loss of appetite and body weight, swollen nose.	Apricot, Pomegranate, Pear	Beans, Methi, Lettuce, Asparagus, Green Chillies, Leafy Vegetables
Vitamin C (Ascorbic Acid)	Promotes general health, healthy gums, prevents scurvy, keeps blood vessels in good condition.	Amla, Guava, Ber, Citrus, Strawberry, Pineapple	Tomato, Palak, Methi, Cabbage, Green Chillies, Spinach, Potatoes, Peas, Beans, Carrot
Vitamin D	Necessary for building bones, preventing rickets, and teeth diseases.		All Green Leafy Vegetables
Vitamin E	Promotes fertility and generative functions.		Green Lettuce and other Green Vegetables
Vitamin K	Prevents blood clotting.		All Green Leafy Vegetables

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Minerals	Essential for maintaining good health.		
Calcium	Essential for bone development, heartbeat regulation, blood clot control.	Acid Lime, Orange, Fig, Dried Apricots, Wood Apple	Cabbage, Greens, Beans, Carrot, Onions, Peas, Tomatoes, Agati, Spinach, Drumstick Leaves
Iron	Required for hemoglobin production, constituent of red blood corpuscles. Deficiency causes anemia, smooth tongue, pale lips, eyes, and skin, frequent exhaustion.	Custard Apple, Guava, Pineapple, Strawberry, Grape, Black Currants, Dried Dates	Carrot, Drumstick Leaves, Beans, Agati
Phosphorous	Essential for moisture content of tissues, bone development.	Guava, Grape, Jackfruit, Passion Fruit, Orange	Carrot, Chilli, Drumstick Leaves, Beans,

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			Cucumber, Onion
Proteins	Bodybuilding foods essential for growth, deficiency causes retarded growth, disease susceptibility, lethargy.	Guava, Banana	Peas, Beans
Enzymes	Required for controlling several metabolic activities in the body.	Papaya (Papain), Pineapple (Bromelain)	
Fibre and Roughages	Required for digestion and prevention of constipation.	Guava, Amla	Leafy Vegetables
Energy Foods	Contain carbohydrates and fats, supply energy to the human body.	Banana, Dates, Apple, Walnut, Cashew Nut, Almond	Potatoes, Sweet Potato, Beans, Peas

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Influence of Environmental Factors on Horticultural Crop Production

Factor	Influence on Crop Production	Examples and Specific Effects
Temperature	Critical determinant of plant growth. Both high and low temperatures affect plant growth. Broad-leaved, evergreen plants are susceptible to low temperatures, while deciduous plants tolerate low temperatures better by shedding foliage. Ideal temperature range for most tropical and subtropical plants is 20-30°C.	- Low Temperature: Below 5°C stresses plants; temperate plants require chilling winters (2-7°C). - High Temperature: Above 40°C causes scorching and burning of leaves, bolting, and seed formation in spinach and lettuce. - Optimum Temperature: 22-27°C is ideal for most plants.
Humidity	Essential for plant growth and fruit quality. High humidity can lead to disease resurgence and pest issues. Low humidity favors better	- High Humidity: Promotes diseases like powdery mildew in mango; fruit fly

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Factor	Influence on Crop Production	Examples and Specific Effects
	color development in some fruits.	incidence increases in mango. Low Humidity: Better color development in oranges. Fluctuation: Causes fruit cracking.
Wind	High velocity winds cause damage to fruit trees, shedding of flowers, and fruit drop. Retards pollinator activity. Windbreaks are necessary for protection.	- High Velocity Winds: Cause breakage of limbs, scorching of banana leaves. - Pollinators: Bee activity reduced significantly with increasing wind velocity.
Rainfall	Amount and distribution of rainfall are crucial for growth and development. Rain at flowering time reduces fruit set. Rainfall at different	- Flowering: Rain washes out pollen grains, reducing fruit set. Harvest: Rains before harvest cause

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Factor	Influence on Crop Production	Examples and Specific Effects
	growth stages affects crop outcomes.	softening of fruits like banana and date palm, increase fruit fly infection in guava and peaches.
Hailstorms	Cause significant damage to fruit crops, especially during flowering and fruit maturity, leading to heavy flower and fruit drop.	- Damage: Hailstorms during flowering and fruit maturity are particularly disastrous, leading to poor returns for growers.
Solar Radiation	Primary source of energy for plants, essential for photosynthesis. Better yields are observed in orchards receiving ample sunlight. Training and pruning are essential for maximizing solar radiation absorption.	- Better Yield: Orchards on the southern slope with better radiation exposure have higher yields. Plant Productivity: Periphery and top portions of plants are more productive due to better sunlight.

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Systems of Orchard Planting

The arrangement of plants in an orchard is crucial for maximizing efficiency and ensuring the healthy growth of trees.

Several systems of planting are commonly used, each with its own advantages and disadvantages. Here is a detailed overview:

<u>System</u>	<u>Description</u>	<u>Procedure for Layout</u>	<u>Merits</u>	<u>Demerits</u>
Square System	Trees planted at each corner of a square with equal spacing between rows and plants.	1. Establish a baseline parallel to the boundary. 2. Place pegs at equal planting distances along the baseline. 3. Draw perpendicular lines using cross-staff or Pythagoras method.	- Simple and easy to layout. - Allows cultural operations in two directions.	- Wastes space in the center of each square.

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<u>System</u>	<u>Description</u>	<u>Procedure for Layout</u>	<u>Merits</u>	<u>Demerits</u>
Rectangular System	Similar to the square system but with different distances between rows and plants.	Follow steps 1-3 as in the square system, then: 4. Mark planting positions on perpendicular lines according to row spacing.	- Similar advantages to square system.	- Cultivation becomes difficult as trees grow.
Quincunx (Filler) System	Modification of the square system with additional trees (fillers) planted in the center of each square.	1. Lay out the square system. 2. Draw diagonals of each square. 3. Plant fillers at intersection points.	- Doubles plant population compared to the square system.	- Intercultural operations are difficult due to filler trees.

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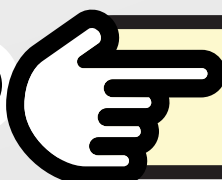
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