

## Reduced Syllabus of Vocation Subject Class IX: 2020-21

### Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Sl. No	Theory	Deleted Topics	Reasons
<b>Unit 1: Introduction to Horticulture</b>	<ul style="list-style-type: none"> <li>Define Horticulture</li> <li>Importance of horticulture in daily life</li> <li>Branches of horticulture</li> <li>Different horticultural crops and their major growing regions in India</li> <li>Horticultural operations viz. training, pruning and transplanting</li> <li>Olericulture</li> <li>Importance of vegetable in human diet</li> </ul>	<ul style="list-style-type: none"> <li>Prospects of Horticulture in India</li> <li>Visit to a nursery/ Horticulture farm for Demonstration of pruning, Training and transplanting of seedlings</li> <li>Practice of pruning</li> </ul>	<p>Topic will already be covered in Importance of Horticulture chapter</p> <p>Due to Covid - 19 lockdown visit is not possible as per Govt.circular</p>
<b>Unit 2: Seed Selection and Seedling Production</b>	<ul style="list-style-type: none"> <li>Various characteristics of seed with their suitability to the location</li> <li>Characteristics of healthy varieties</li> <li>Demand of various varieties in the market</li> <li>Preparing the site for seed bed</li> <li>Soil sterilization – solarisation and chemical treatment</li> <li>Seed treatment techniques with chemicals</li> <li>Factors affecting seed germination – seed viability, seed pests and diseases, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration of the procedure of preparation of various types of seed beds – raised, sunken, level</li> <li>Planting seeds in the poly bags/trays to aid in the cultivation of Solanaceous crops</li> <li>Counting the number of seeds that have germinated so as</li> </ul>	<p>Due to class suspension at school level and time factor</p>

	<ul style="list-style-type: none"> <li>• Factors to be considered while planting seeds on seed bed and polybags/ trays – time, depth, etc.</li> <li>• Advantages and disadvantages of soil nursery or tray method</li> <li>• Depth and spacing of planting seedlings in case of soil nursery &amp; tray for Solanaceous crops</li> </ul>	to assess mortality rate	
<b>Unit 3: Soil Preparation and Transplanting in Solanaceous Crops</b>	<ul style="list-style-type: none"> <li>• Importance of Soil testing</li> <li>• Various authorized centers of soil testing</li> <li>• Level of soil tillage including depth of ploughing and appropriate equipments for plugging</li> <li>• Distance between ridges and furrows</li> <li>• Requirement of farm yard manure and fertilizer in appropriate quantity</li> <li>• Appropriate time for planting by taking in to account of soil, climatic conditions</li> <li>• Planting equipments (shovel or trowel)</li> <li>• Spacing between rows and plants</li> <li>• Advantages and disadvantages of intercropping and types of plant to be intercropped</li> <li>• Advantages of crop rotation</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare the land with ridges and furrows</li> <li>• Application of farm yard manure and fertilizers</li> <li>• Demonstration Transplanting of seedling at appropriate stage and spacing</li> </ul>	Practical is not possible due to shortage of time in amid covid-19 lockdown

<b>Unit 4: Soil Nutrient Management in Vegetable Crops</b>	<ul style="list-style-type: none"> <li>• Elements / components under macro &amp; micro nutrients</li> <li>• Function of each macro &amp; micro nutrient</li> <li>• Advantages &amp; disadvantages of particular macro &amp; micro nutrients</li> <li>• Types of organic manures (farm yard manure, compost, green manure, vermicompost), fertilizers and biofertilizers</li> <li>• Methods of application of manures, fertilizers and biofertilizers</li> <li>• Time of application of manures, fertilizers and biofertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the basic macro &amp; micro nutrients with their functions</li> <li>• Undertake testing of soil to determine its nutrient and fertilizer needs from authorized laboratory</li> <li>• Collect soil testing report</li> <li>• Visit to a Vegetable farm for applying manures and fertilizers as per the recommended dose to various vegetables</li> </ul>	<p>Will be covered at classification</p> <p>Already covered at unit 3.</p> <p>Due to Covid - 19 lockdown visit is not possible as per Govt.circular</p>
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Unit	Practical Topic to be covered
<b>Unit 1: Introduction to Horticulture</b>	<ul style="list-style-type: none"><li>• Enlist the major horticultural crops in India and your locality</li><li>• Draw a diagram depicting the classification of horticultural crops</li><li>• Demonstrate the availability of nutrients through vegetables</li><li>• using charts/pictures</li></ul>
<b>Unit 2: Seed Selection and Seedling Production</b>	<ul style="list-style-type: none"><li>• Identify various and appropriate variety (including hybrid) of Solanaceous crops</li><li>• Identify various vendors / suppliers (including government nurseries /department) of the seed that are certified</li><li>• Procure seeds in appropriate quantity</li><li>• Identify market rates for Solanaceous crop seeds (such as tomato, capsicum,)</li><li>• Estimating how much seed is required to grow a given number of area for each crop</li><li>• Identify soil nursery or tray method for growing seedlings</li><li>• Plant the seed at correct depth and appropriate spacing</li><li>• Water the seedling at appropriate time with appropriate method</li></ul>
<b>Unit 3: Soil Preparation and Transplanting in Solanaceous Crops</b>	<ul style="list-style-type: none"><li>• Enlist the authorised soil testing centres in your state.</li></ul>