

Alagappa University, Karaikudi  
 Directorate of Distance Education  
 M. Sc., Botany Programme (2019-2021 Batch)  
 Fourth Semester- Assignment Titles

<b>Enrollment No.</b>	<b>Name</b>	<b>Assignment Titles</b>
193460001	VIJAYA M	4.1.a. Plant genome organization: Nucleus, Chloroplast and Mitochondria. 4.1.b. Structural features of a typical plant gene. 4.2. Non probability sampling techniques and random sampling techniques. 4.3. Water irrigation; advanced irrigation system such as drip, microtube and sprinkler systems.
193460002	HARITHA R	4.1.a. Molecular markers – STS, Microsatellites, RAPD, SCAR and AFLP. 4.1.b. Tagging, mapping and cloning of plant genes 4.2. Measures of central tendency: Mean - median - mode 4.3. Vegetative propagation using stem, leaf and root cuttings
193460003	REKHA S	4.1.a. Mitochondrial genome and Cytoplasmic male sterility 4.1.b. Regulation of gene expression in plant development 4.2. Measures of dispersion: Range - mean deviation - standard deviation. 4.3. Propagation by division and layering, bulbs, corms, tubers and rhizomes-budding and grafting
193460004	ISWARYA R	4.1.a. Classification and functions of Seed storage proteins. 4.1.b. Plant hormones and Plant transposons 4.2. Test of significance: Null hypothesis - alternate hypothesis 4.3. Indoor gardening: Foliage plants, flowering plants, hanging basket, Bonsai plants - Training and pruning.
193460005	MEENA S	4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and Flavr Savr® 4.2. Data base searches - FASTA, BLAST - PSI BLAST 4.3. Principles and methods of designing outdoor garden - hedges, edges, fences, trees, climbers, rockeries, arches, terrace garden
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Last Date for Submission of Hard Copies of Assignments: **20.04.2021**

The **Hard Copies of Assignments** should be submitted to Dr. M. Jothi Basu, Programme Coordinator, M. Sc., Botany Programme, Directorate of Distance Education, Alagappa University, Karaikudi- 630 003

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193460006	MAHALAKSHMI B	<p>4.1.a. Direct Plant transformation techniques.            4.1.b. Selectable markers: Types and their role in plant transformation.            4.2. PHYLODRAW- Phylogenetic tree.            4.3. Production of seeds, their certification, storage and germplasm collection</p>
193460007	THENMOZHI P	<p>4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia            4.1.b. Reporter genes: Types and role in optimizing transformation            4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices            4.3. Micropropagation – Introduction, stages and types of explants for commercial propagation, importance and applications of micropropagation</p>
193460008	GNANASEKARAN S	<p>4.1.a. In-Direct plant transformation technique.            4.1.b. Plant genetic engineering for herbicide resistance            4.2. Laws of Thermodynamics and Energy transductions in biological systems.            4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications</p>
193460009	SUTHA S	<p>4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia            4.1.b. Reporter genes: Types and role in optimizing transformation.            4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices            4.3. Layout for a model college garden</p>
193460010	AGILA N	<p>4.1.a. Direct Plant transformation techniques.            4.1.b. Selectable markers: Types and their role in plant transformation.            4.2. Data base searches - FASTA, BLAST - PSI BLAST            4.3. Lawn making and maintenance</p>
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193460011	JAQULIN JEBAMALAI VIMALA A	<b>4.1.a. Plant genetic engineering for Virus resistance (Antisense RNA approach, Cross protection Satellite RNA, Ribozymes and Coat protein mediated protection). 4.1.b. Promoters used in plant vectors. 4.2. Photobiology: Dual nature of light, characteristics of solar radiation, solar energy. 4.3. Native and synthetic hormones and other growth regulators- their importance in horticulture, gardening and landscaping</b>
193460012	UMAMAGESHWARI M	<b>4.1.a. In-Direct plant transformation technique. 4.1.b. Plant genetic engineering for herbicide resistance 4.2. Laws of Thermodynamics and Energy transductions in biological systems. 4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications</b>
193460013	KAVITHA SUGANTHAVATHI C	<b>4.1.a. Direct Plant transformation techniques. 4.1.b. Selectable markers: Types and their role in plant transformation. 4.2. PHYLODRAW- Phylogenetic tree. 4.3. Production of seeds, their certification, storage and germplasm collection</b>

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