

Assignment Titles for Fourth Semester- 2020-2022 Batch

Roll No.	Name	Assignment Titles
2020023460001	SAMUEL M	<p>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.</p>
2020023460002	ARUL KAVITHA V	<p>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</p>
2020023460003	ANBU KIRAN SINGH S	<p>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</p>
2020023460004	SUBASRI K	<p>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.</p>
2020023460005	MEENA S	<p>4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and FlavrSavr® 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</p>
2020023460006	JENIFER SHIRLY T	<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>
2020023460007	ARJUN 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. Micropropagation – Introduction, stages and types of explants for commercial propagation, importance and applications of micropropagation</p>

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2020023460008	PRAVEENA D	<p>4.1.a. In-Direct plant transformation technique.</p> <p>4.1.b. Plant genetic engineering for herbicide resistance</p> <p>4.2. Laws of Thermodynamics and Energy transductions in biological systems.</p> <p>4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications</p>
2020023460009	GOWRI K	<p>4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia</p> <p>4.1.b. Reporter genes: Types and role in optimizing transformation.</p> <p>4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices</p> <p>4.3. Layout for a model college garden</p>
2020023460010	JAYABHARATHI M	<p>4.1.a. Direct Plant transformation techniques.</p> <p>4.1.b. Selectable markers: Types and their role in plant transformation.</p> <p>4.2. Data base searches - FASTA, BLAST - PSI BLAST</p> <p>4.3. Lawn making and maintenance</p>
2020023460011	RAMYA P	<p>4.1.a. Plant genetic engineering for Virus resistance (Antisense RNA approach, Cross protection Satellite RNA, Ribozymes and Coat protein mediated protection).</p> <p>4.1.b. Promoters used in plant vectors.</p> <p>4.2. Photobiology: Dual nature of light, characteristics of solar radiation, solar energy.</p> <p>4.3. Native and synthetic hormones and other growth regulators- their importance in horticulture, gardening and landscaping</p>
2020023460012	SARANYA S	<p>4.1.a. In-Direct plant transformation technique.</p> <p>4.1.b. Plant genetic engineering for herbicide resistance</p> <p>4.2. Laws of Thermodynamics and Energy transductions in biological systems.</p> <p>4.3. Principles and protocols, protoplast culture and fusion- Importance of protoplast fusion and applications</p>
2020023460013	NIVEATHA S	<p>4.1.a. Direct Plant transformation techniques.</p> <p>4.1.b. Selectable markers: Types and their role in plant transformation.</p> <p>4.2. PHYLODRAW- Phylogenetic tree.</p> <p>4.3. Production of seeds, their certification, storage and germplasm collection</p>
2020023460014	KAVIYA SHREE S	<p>4.1.a. Symbiotic nitrogen fixation in legumes by Rhizobia</p> <p>4.1.b. Reporter genes: Types and role in optimizing transformation.</p> <p>4.2. Sequence alignment - sequence similarity searches, amino acid substitution matrices</p> <p>4.3. Layout for a model college garden</p>

Assignment Titles for Fourth Semester- 2020-2022 Batch

2020023460015	MUTHURAMALINGAM P	4.1.a. Molecular Pharming and Transgenic plant derived products for commercial applications 4.1.b. Golden rice and FlavrSavr® 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
2020023460016	SINDHUJA 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.

Last Date for Submission of Assignments: 25th March, 2022 10:00 a.m.

Hard Copies of the Assignments should reach the following address on or before the Last Date mentioned above:

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