

**M. Sc., Botany 2022- 2023 Batch**  
**Assignment Titles for Second Semester**

<b>Enrollment No.</b>	<b>Name</b>	<b>Assignment Titles</b>
2022023460001	DAISY A	<b>2.1. Protein processing and trafficking from ER to Golgi.</b> <b>2.2. Light and Electron microscopic structure of Cell walls.</b> <b>2.3. Cyanide resistant respiration and Nitrate &amp; ammonia assimilation.</b>
2022023460002	VISHNU PRIYA R	<b>2.1. Mendelian Genetics and Gene Interaction.</b> <b>2.2. a. Molecular aspects of developing vegetative organs. b. Cambial variants and floral vasculature.</b> <b>2.3. Essay on Enzymes.</b>
2022023460003	SIVASANKARI A	<b>2.1. Cell Division and Cell cycle.</b> <b>2.2. Structural diversity, phylogenetic specialization of Xylem and Phloem.</b> <b>2.3. Essay on Amino acids and proteins.</b>
2022023460004	SELVA JOTHI R	<b>2.1. Protein sorting in mitochondria, chloroplast, endoplasmic reticulum and nucleus.</b> <b>2.2. Vascular differentiation in the primary body of stem, root and leaf.</b> <b>2.3. Glycolysis, TCA cycle and PP pathway.</b>
2022023460005	BAKIA LAKSHMI B	<b>2.1. Structure of Prokaryotic and Eukaryotic cells</b> <b>2.2. Molecular aspects of higher plant reproduction</b> <b>2.3. a. Transpiration and its significance, factors affecting transpiration.</b> <b>2.3.b. Mechanism of stomatal movement</b>
2022023460006	DIVYA BHARATHY G	<b>2.1. Structure and functions of Nucleus and Lysosomes</b> <b>2.2. Anther development and pollen morphology</b> <b>2.3. Water transport process</b>
2022023460007	HAMEEDHA BANU O	<b>2.1. Structure and functions of Entoplasmic Reticulum and Golgi Complex.</b> <b>2.2. Megasporogenesis, Female gametophyte</b> <b>2.3. Ultra structure of photosynthetic apparatus.</b>
2022023460008	FEMINA D	<b>2.1. Organization and functions of Cytoskeletons.</b> <b>2.2. Physical, chemical and mechanical properties of wood</b> <b>2.3. C4 and C3 carbon cycles.</b>
2022023460009	SHOBHA R	<b>2.1. Structure and functions of Chloroplast and Mitochondria</b> <b>2.2. Nutrition to embryo sac and types of endosperm.</b> <b>2.3. Photochemical reactions and electron transport pathway in chloroplast membranes.</b>

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<b>Enrollment No.</b>	<b>Name</b>	<b>Assignment Titles</b>
2022023460010	RAMYA A S	<b>2.1. Structure, assembly and functions of biological membrane.</b> <b>2.2. Molecular aspects of wood differentiation.</b> <b>2.3. Biological nitrogen fixation</b>
2022023460011	SELVI R	<b>2.1. Transport of ions and molecules across the membranes.</b> <b>2.2. Commercial woods of south India.</b> <b>2.3. Nutrient uptake and transport mechanism.</b>
2022023460012	BOOMINATHAN A	<b>2.1. Protein sorting in mitochondria, chloroplast, endoplasmic reticulum and nucleus.</b> <b>2.2. Vascular differentiation in the primary body of stem, root and leaf.</b> <b>2.3. Glycolysis, TCA cycle and PP pathway.</b>
2022023460013	GURU LEXMI K	<b>2.1. Cell Division and Cell cycle.</b> <b>2.2. Structural diversity, phylogenetic specialization of Xylem and Phloem.</b> <b>2.3. Essay on Amino acids and proteins.</b>
2022023460014	KANIPRIYA V	<b>2.1. Mendelian Genetics and Gene Interaction.</b> <b>2.2. a. Molecular aspects of developing vegetative organs. b. Cambial variants and floral vasculature.</b> <b>2.3. Essay on Enzymes.</b>
2022023460015	DIVYA BHARATHI T	<b>2.1. Structure of Prokaryotic and Eukaryotic cells</b> <b>2.2. Molecular aspects of higher plant reproduction</b> <b>2.3. a. Transpiration and its significance, factors affecting transpiration.</b> <b>2.3.b. Mechanism of stomatal movement</b>
2022023460016	REGHA N	<b>2.1. Protein processing and trafficking from ER to Golgi.</b> <b>2.2. Light and Electron microscopic structure of Cell walls.</b> <b>2.3. Cyanide resistant respiration and Nitrate &amp; ammonia assimilation.</b>
2022023460017	JOTHI LAKSHMI R	<b>2.1. Mendelian Genetics and Gene Interaction.</b> <b>2.2. a. Molecular aspects of developing vegetative organs. b. Cambial variants and floral vasculature.</b> <b>2.3. Essay on Enzymes.</b>
2022023460018	SUGANTHI S	<b>2.1. Cell Division and Cell cycle.</b> <b>2.2. Structural diversity, phylogenetic specialization of Xylem and Phloem.</b> <b>2.3. Essay on Amino acids and proteins.</b>

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<b>Enrollment No.</b>	<b>Name</b>	<b>Assignment Titles</b>
2022023460019	AMALORPAVA ESKALIN VINNOLI X	<b>2.1. Protein sorting in mitochondria, chloroplast, endoplasmic reticulum and nucleus.</b> <b>2.2. Vascular differentiation in the primary body of stem, root and leaf.</b> <b>2.3. Glycolysis, TCA cycle and PP pathway.</b>
2022023460020	VIGNESWARI S	<b>2.1. Structure of Prokaryotic and Eukaryotic cells</b> <b>2.2. Molecular aspects of higher plant reproduction</b> <b>2.3. a. Transpiration and its significance, factors affecting transpiration.</b> <b>2.3.b. Mechanism of stomatal movement</b>
2022023460021	SASI REKHA T	<b>2.1. Structure and functions of Nucleus and Lysosomes</b> <b>2.2. Anther development and pollen morphology</b> <b>2.3. Water transport process</b>
2022023460022	DEVA AARO VINCY A	<b>2.1. Structure and functions of Entoplasmic Reticulum and Golgi Complex.</b> <b>2.2. Megasporogenesis, Female gametophyte</b> <b>2.3. Ultra structure of photosynthetic apparatus.</b>
2022023460023	PREETHI J G	<b>2.1. Organization and functions of Cytoskeletons.</b> <b>2.2. Physical, chemical and mechanical properties of wood</b> <b>2.3. C4 and C3 carbon cycles.</b>
2022023460024	JAYALAKSHMI K	<b>2.1. Structure and functions of Chloroplast and Mitochondria</b> <b>2.2. Nutrition to embryo sac and types of endosperm.</b> <b>2.3. Photochemical reactions and electron transport pathway in chloroplast membranes.</b>

**The Last Date for Submission of Assignments is 28<sup>th</sup> March, 2023, 10:00 a.m.**

The Assignments should reach the following address:

**Dr. M JOTHI BASU**  
**Programme Coordinator**  
**M. Sc., Botany Programme**  
**Directorate of Distance Education**  
**Alagappa University**  
**Karaikudi- 630 003**