**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Even Semester) Session (2019-2020)**

**Class:** B.Sc. III(Sem. 6TH) **Name of the Teacher:** Dr Manvi Malwal

M.Sc. II(Sem. 4TH)

**Subject: Paper: Period: Room No:**

B.Sc. IIIPlant Physiology (Paper- B)I (1,3,5 day) 219

M.Sc. II Plant Biochemistry (Paper-XVI) V (2,4,6 day) 211&224

M.Sc. IIForestry (Paper- XVII) V (1,3,5 day) 211&213

M.Sc. IICytogentics &Plant Breeding (Paper- XVIII) VI (2,4,6 day) 213&211

M.Sc. IIPlant Resource, Utilization and Conservation (Paper-XIX) VI (3), IV (5) 211&224

M.Sc. IIResearch Methodology (Paper-XX) II,III, IV (3day) 213&224

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| **S. No** | **Dates** | **Classes** | **Topics to be Covered** |
| Week 1 | 09-01-2020 to 11-01-2020 | --------- | ------------ |
| Week 2 | 13-01-2020 to 18-01-2020 | B.Sc.III | Area of cultivation, soil requirement, cultivation practices, and high yielding varieties of 1. Wheat |
| M.Sc. II P-XVI | Concept of free energy changes; Laws of Thermodynamics; Exergonic and Endergonic Reactions, |
| M.Sc. II P- XVIII | Quantitive genetics , polygenic inheritance |
| M.Sc. II P- XVII | Forestry general account and silviculture |
| M.Sc. II P-XIX | Origin, distribution, types, botany, cultivation, harvesting, and uses of Rice |
| M.Sc. II P-XX | Research methodology demonstration |
| Week 3 | 20-01-2020 to 25-01-2020 | B.Sc.III | Rice |
| M.Sc. II P-XVI | Entropy and Energy; Free Energy and Equilibrium Constant; Redox potential. |
| M.Sc. II P- XVIII | Heribility and its measurements |
| M.Sc. II P- XVII | Vegetative propagation techniques, nursery |
| M.Sc. II P-XIX | Rice cont. |
| M.Sc. II P-XX | Review of literature |
| Week 4 | 27-01-2020 to 01-02-2020 | B.Sc.III | Maize |
| M.Sc. II P-XVI | Structure types, properties and Metabolism of Amino acids; Motif and folds |
| M.Sc. II P- XVIII | QTL mapping |
| M.Sc. II P- XVII | Natural seed regeneration |
| M.Sc. II P-XIX | Citrus |
| M.Sc. II P-XX | Review of literature |
| Week 5 | 03-02-2020 to 08-02-2020 | B.Sc.III | Fibres- Cotton, Vegetable-Potato |
| M.Sc. II P-XVI | Classification of proteins, Reverse turns and Ramachandran plot. |
| M.Sc. II P- XVIII | Human genetics |
| M.Sc. II P- XVII | Forest acts, Forest protection from diseases |
| M.Sc. II P-XIX | mango |
| M.Sc. II P-XX | Review of literature |
| Week 6 | 10-02-2020 to 15-02-2020 | B.Sc.III | Fruits- Mango, Grapes |
| M.Sc. II P-XVI | Ionization of water and buffering against pH changes in biological systems |
| M.Sc. II P- XVIII | Pedigree analysis, genetic disorders |
| M.Sc. II P- XVII | Social and urban forestry detailed account |
| M.Sc. II P-XIX | Apple, Banana |
| M.Sc. II P-XX | Experimental design |
| Week 7 | 17-02-2020 to 22-02-2020 | B.Sc.III | Fruits- Lemon |
| M.Sc. II P-XVI | Henderson-Hassalbach equation and fitness of the aqueous environment for living organisms. |
| M.Sc. II P- XVIII | Multigene family |
| M.Sc. II P- XVII | General account of forest laws and conservation |
| M.Sc. II P-XIX | Potato |
| M.Sc. II P-XX | Experimental design |
| Week 8 | 24-02-2020 to 29-02-2020 | B.Sc.III | Sugar yielding plant-Sugarcane |
| M.Sc. II P-XVI | Nomenclature and Classification; Enzyme Kinetics |
| M.Sc. II P- XVIII | Multigene family evolution |
| M.Sc. II P- XVII | Salient features of Indian forest act 1972 |
| M.Sc. II P-XIX | Allium |
| M.Sc. II P-XX | Experimental design |
| Week 9 | 02-03-2020 to 05-03-2020 | B.Sc.III | Oil Yielding plants- Groundnut, Mustard |
| M.Sc. II P-XVI | Carbohydrates:Classification, composition and structure |
| M.Sc. II P- XVIII | Plant Breeding General Account |
| M.Sc. II P- XVII | Different methods employed for conservation of forests. |
| M.Sc. II P-XIX | Revision |
| M.Sc. II P-XX | Experimental design |
| Mid Semester Exams (06-03-2020 to 13-03-2020) | | | |
| Week 11 | 14-03-2020, 16-03-2020 to 21-03-2020 | B.Sc.III | Elementary Knowledge of the following plants( botanical names, families, parts used and eco imp)1. Food- wheat, rice, maize, moong, gram 2. Timber- teak and Sal |
| M.Sc. II P-XVI | Lipids:Classification, Structure and functions |
| M.Sc. II P- XVIII | Conventional methods of Self & cross pollinated crops. |
| M.Sc. II P- XVII | Forests types: climate of India |
| M.Sc. II P-XIX | Cabbage |
| M.Sc. II P-XX | Experimental design |
| Week 12 | 24-03-2020 to 28-03-2020 | B.Sc.III | 2. Timber-deodar and shisham 3. Fibres- cotton, jute, coir, flax. |
| M.Sc. II P-XVI | Compounds of Energy Transfer |
| M.Sc. II P- XVIII | Heterosis and hybrid and its role in plant breeding |
| M.Sc. II P- XVII | Different climatic regions of India |
| M.Sc. II P-XIX | Spinach |
| M.Sc. II P-XX | Experimental design |
| Week 13 | 30-03-2020 to 04-04-2020 | B.Sc.III | 4.spices-fennel coriander, turmeric, ginger,mint,clove. |
| M.Sc. II P-XVI | Compounds of Redox Reactions |
| M.Sc. II P- XVIII | Utility of hybrids in genetics and plant breeding |
| M.Sc. II P- XVII | Characters and distributions of different climatic regions of India |
| M.Sc. II P-XIX | Tomato |
| M.Sc. II P-XX | Experimental design |
| Week 14 | 07-04-2020 to 11-04-2020 | B.Sc.III | 5. Pulp plants- bamboo, eucalyptus 6. Medicinal plants-Liquorice, belladonna, Aconite, Ashwagandha. |
| M.Sc. II P-XVI | Sites and mechanism of Oxidative  Phosphorylation |
| M.Sc. II P- XVIII | Breeding methods |
| M.Sc. II P- XVII | Forests types of India |
| M.Sc. II P-XIX | Brinjal |
| M.Sc. II P-XX | Experimental design |
| Week 15 | 15-04-2020 to 18-04-2020 | B.Sc.III | 6. Arjun, poppy, amla 7. Tea and coffee |
| M.Sc. II P-XVI | Processes generating substrates for Oxidative Phosphorylation |
| M.Sc. II P- XVIII | Asexual breeding system |
| M.Sc. II P- XVII | General effects of forests on climate. |
| M.Sc. II P-XIX | sweet potato |
| M.Sc. II P-XX | Research work compilation |
| Week 16 | 20-04-2020 to 24-04-2020 | B.Sc.III | Forest conservation |
| M.Sc. II P-XVI | Coupled Reactions, Group Transfer, Biological energy Transducers |
| M.Sc. II P- XVIII | Gene variability |
| M.Sc. II P- XVII | Polyploidy |
| M.Sc. II P-XIX | Revision |
| M.Sc. II P-XX | Research work compilation |
| Week 17 | 27-04-2020 to 02-05-2020 | B.Sc.III | wood seasoning and its preservation |
| M.Sc. II P-XVI | Biosynthesis of terpenes and phenols and their role |
| M.Sc. II P- XVIII | Male sterility |
| M.Sc. II P- XVII | Social values and ecotourism |
| M.Sc. II P-XIX | Revision |
| M.Sc. II P-XX | Research work compilation |
| Week 18 | 04-05-2020 | B.Sc.III | Revision |
| M.Sc. II P-XVI | Revision |
| M.Sc. II P- XVIII | Breeding utility |
| M.Sc. II P- XVII | Economic values, floods, green belts and control of temp |
| M.Sc. II P-XIX | Revision |
| M.Sc. II P-XX | Research work compilation |