**Post Graduate Government College for Girls, Sector-42, Chandigarh**

**Teaching Plan for Bachelors (Third and Fifth Semester) and Post Graduate (Third Semester)**

**Session (2020-2021)**

**Class: MSc. Botany II**  **Name of the Teacher:Dr. Manvi**

**Subject: Botany Paper:Paper XI-Molecular Biology Paper XIV-Cytogenetics**

**Paper XV-Ecology and environment**

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| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 03/08/2020 – 08/08/2020 | Paper XI- DNA structure  Paper XIV-Chromosome structure and pakaging  PaperXV-Pollution |
| Week 2 | 10/08/2020 – 14/08/2020 | Paper XI- Nomenclature of DNA  Paper XIV-Molecular organization of centromere and telomere  PaperXV-Non –convential sources of energy |
| Week 3 | 17/08/2020 – 22/08/2020 | Paper XI- Types of DNA  Paper XIV-Chromation organisation  PaperXV-Management and conservation of Natural resources |
| Week 4 | 24/08/2020 – 29/08/2020 | Paper XI- R.N.A. and its type,Lambrush chromosome and its type  Paper XIV- Mutations  PaperXV- Biogeochemical cycle |
| Week 5 | 31/08/2020- 05/09/2020 | Paper XI- Cell cycle,Biosynthesis of nucleotiode  Paper XIV-Mutations conti..PaperXV- Ozone depletion and pollution ,Climatic factors |
| Week 6 | 07/09/2020- 12/09/2020 | Paper XI- D.N.A. replication,Apoptosis,Imunnity and vaccines  Paper XIV- Karyotype  PaperXV-Invasion of alien plants |
| Week 7 | 14/09/2020- 19/09/2020 | Paper XI- Transcription,RNA capping ,splicing  Paper XIV- Blotting,Fish GISH,C- value and cot curve,Numerical changes in chromosome  PaperXV-Global Warming |
| Week 8 | 21/09/2020- 26/09/2020 | Paper XI- Cancer Cancer(contd.),MHC and its types B and T cells,Immuno complete  Paper XIV- Numerical changes in chromosome  PaperXV- Ozone depletion |
| Week 9 | 28/09/2020- 03/10/2020 | Paper XI- Rolling circle model, biosynthesis of pyrimidines  Paper XIV-B-chromosome,inversion,translocation  PaperXV-Environment and ecology |
| Week 10 | 05/10/2020- 10/10/2020 | Paper XI- Biosynthesis of pyrimidines  Paper XIV-Translocation tester test,robertsonian translocation,B-A translocation  PaperXV-Environment and ecology |
| Week 11 | 12/10/2020- 16/10/2020 | Paper XI- Different models of control  Paper XIV-Chromosome jumping and walking, western blotting  PaperXV-Biosphere reserve |
| Week 12 | 19/10/2020- 24/10/2020 | Paper XI- Translation enzymetic and hormonal control  Paper XIV-Alien gene transfer  PaperXV-Population ecology,Biodiversity |
| Week 13 | 27/10/2020- 30/10/2020 | Paper XIV-Transposones  PaperXV-Plant communities |
| Week 14 | 03/11/2020- 07/11/2020 | Paper XI- transposones  Paper XIV-Polymerase chain reaction  PaperXV-Biodiversity continu…. |
| Week 15 | 09/11/2020- 12/11/2020 | Paper XI- Revision Test  Paper XIV- Revision Test  PaperXV- Revision Test |
| Week 16 | 16/11/2020- 21/11/2020 | Paper XI- Revision Test  Paper XIV- Revision Test  PaperXV- Revision Test |
| Week 17 | 23/11/2020- 28/11/2020 | Paper XI- Revision Test  Paper XIV- Revision Test  PaperXV- Revision Test |