**OFFICE OF THE PRINCIPAL GOVT. P.G. COLLEGE FOR WOMEN SEC-14 PANCHKULA**

**Lesson Plan (2020-21) Odd Semester**

**Name of the Assistant/ Associate Professor:** Dr. Reena (Extension Lecturer in Botany)

**Class and Section:** BSc. I ,II (Medical)

**Subject/Paper-** Botany

|  |  |  |
| --- | --- | --- |
| **August** | ***Cycas****-*:Morphology, anatomy of Root,Stem, Leaflet and Rachis of *Cycas,* Reproduction of *Cycas.****Pinus*-**: Morphology of *Pinus,* Anatomy of Root, Long Shoot and its Secondary growth in *Pinus*. | Remarks |
| **September** | ***Pinus* Continued**-: Anatomy of Dwarf Shoot and Needle of *Pinus*, Reproduction.***Ephedra***-: Morphology, Anatomy of Root, Stem and Leaf of *Ephedra,* Reproduction |  |
| **October** | General account of Cyanobacteria (with reference to *Nostoc)*General characters of AlgaeClassification of algae (upto classes), Important features of Chlorophyceae, Xanthophyceae, Phaeophyceae and Rhodophyceae,Important Features and life History of *Volvox*, *Oedogonium, Vaucheria*, |  |
| **November** |  Important Features and life History of *Ectocarpus, Polysiphonia*Bacteria: Structure, Nutrition and Reproduction.Economic Importance of Algae, Economic importance of Bacteria.***Phytophthora, Mucor*:** vegetative structure,reproduction, life cycle ***Penicillium, Puccinia:*** vegetative structure, reproduction, life cycle***Agaricus, Colletotrichum,* Lichens:** vegetative structure, reproduction, life cycle. | Assignment-IClass-Test |
| **December** | Fungi: general, Fungi :Classification, Fungi: Economic importance. Structure and Functions of Cell wall, Structure and functions of Plasma Membrane, Ultra Structure and Functions of Nucleus, Chromatin: Euchromatin and HeterochromatinUltrastructure and Function of Golgi Apparatus, Endoplasmic reticulum, Chloroplast, Mitochondria, Lysosomes, Peroxisomes. Chromosomal Alterations: Deletions and Duplications, Translocations, inversions | Assignment-IIClass-Test |
| **January** | Variations in Chromosome number- Aneuploidy and Polyploidy, Sex Chromosomes and Sex determination.Vacuoles. Cell division: Mitosis and Meiosis , Importance of Cell division.Chromosome Morphology, Organization, Ultrastructure of Centromere and Telomere | Unit-TestRevision |