

**Maharshi Patanjali Vidya Mandir, Allahabad**

**Syllabus : 2018 - 2019**

**Subject : Biology**

**Class - XII**

**1<sup>st</sup> TERM:-**

Chapter 13- Organisms and Populations

Chapter 14- Ecosystem

Chapter 15- Biodiversity and Conservation

Chapter 16- Environmental Issues

Chapter 10- microbes in Human Welfare

Chapter 8 – Human Health and Disease

Chapter 5- Principles of Inheritance and Variations

Chapter 6- Molecular Basis of Inheritance

Chapter 11- Biotechnology: Principles and Processes

Chapter 12- Biotechnology and its Applications

Chapter 1- Reproduction in organisms

Chapter 2- Sexual Reproduction in Flowering Plants

Chapter 3- Human reproduction

Chapter 4- Reproductive Health

**Practicals :-**

1. Study and observation of the spots :- Flower pollination, slides study, mendelian inheritance, pedigree charts, permanent slides or specimens, Two plants and animals found in xeric and aquatic condition
2. study of pollen germination
3. To study the texture, moisture content, pH and water holding capacity of soil.
4. To study the pH , clarity presence of living organism in water. Bodies.
5. To study the population density by quadrat method.
6. To study mitosis by temporary mount.

**2<sup>nd</sup> TERM**

Chapter 7- Evolution

Chapter 9- Strategies for enhancement in Food production

**Practicals:-**

1. Isolation of DNA from any plant material.
2. To study the effect of different temperatures and three different pH on the activity of salivary amylase on starch.

**1<sup>st</sup> Term:- Chapter 13,14, 15, 16**

**Half yearly- Chapter 5,6,8,10,11,12,13,14,15,16**

**Preboard : All chapters**

**As per CBSE Curriculum (Subtopics)**

Assignment: Molecular Basis of Inheritance.