**Annual Planner**

**Biology CLASS XII (2025-26)**

|  |  |  |  |  |  |  |
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| **Month WD** | **PD** | **Ch.** | **Assignment** | | **Activities** | |
|  | TOTAL UNIT=5  CHAPTERS=13  UNITS  **REPRODUCTION =16(MARKS)**  **GENETICS AND EVOLUTION=20**  **BIOLOGY AND HUMAN WELFARE=12**  **BIOTECHNOLOGY AND ITS APPLICATIONS=12**  **ECOLOGY AND ENVIRONMENT=12** | | | | | |
| **APRIL 22** | 10 | Sexual Reproduction in Flowering Plants | NCERT Exercise & Worksheet | | Videos | |
| Lab Activities | 1Study pollen germination on a slide(permanent as well as temporary)  2(a )Controlled pollination –emasculation, tagging ,and bagging.  b. Flowers adapted to pollination by different agencies. | | | | | |
| **MAY 24** | 7 | Human Reproduction | NCERT Exercise & Worksheet | | Videos | |
| Lab  Activities | 3.Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides | | | | | |
| **MAY** | 5 | Reproductive Health | NCERT Exercise & Worksheet | | MCQ Test  Questions | |
| Lab Activities | 4T,s of blastula through permanent slides(mammalian) | | | | | |
| **MAY** | 12 | Principles of Inheritance and Variation | NCERT Exercise & Worksheet | | Pedigree Analysis | |
| Lab Activities | 5Mendelian inheritance using seeds of different colour/sizes of any plant.  6 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak | | | | | |
| UT I | Ch.-1, | | | | | |
| **JULY 24** | 5  13 | Principal of inheritance and variation  Molecular Basis of Inheritance | NCERT Exercise & Worksheet | | Videos & MCQ Test | |
| JULY | 6 | Human Health and Diseases | NCERT Exercise & Worksheet | | Science Essay Competition | |
| Lab Activities | 7 Meiosis in onion bud cell or grasshopper testis through permanent slides  8 Common disease causing organisms like Ascaris, Entamoeba , Plasmodium, Roundworm through  permanent slides or specimens. comment on symptoms of diseases that they cause. | | | | | |
| **JULY** | UT 2 | | | | | |
| **AUGUST 22** | 10 | Microbes in Human Welfare | NCERT Exercise & Worksheet | | Videos  VISIT TO SEWAGE TREATMENT PLANT | |
|  | 12 | Evolution | NCERT Exercise & Worksheet | | Videos & ppt. | |
| **SEPTEMBER 23** | REVISION  Half Yearly Ch-1, 2,3,4,5,6 | | | | | |
| **OCTOBER 19** | 7  6  6 | 1.Organisms and populations  2.Ecosystem  3.Biodiversity and its conservation | | NCERT Exercise & Worksheet | | MCQ |
| Lab Activities | 9Models specimens showing symbiotic association in lichens,root nodules of leguminous plants,and parasitic mode of nutrition shown by Cuscuta on host.    10Flash models showing examples of homologous and analogous organ  11.study the plant population density and frequency by quadrat method. | | | | | |
| **NOVEMBER 22** | 10 | Biotechnology - Principles and processes | NCERT Exercise & Worksheet | | Quiz Competition  LAB VISIT(GJU) | |
| **UT** | 3 |  |  | |  | |
| **NOVEMBER** | 10 | Biotechnology and its Application | NCERT Exercise & Worksheet | | Videos | |
| Lab Activities | 12.Isolate DNA from available plant material such as spinach ,green,pea seeds,papaya and banana | | | | | |
| **DECEMBER 24**  **DECEMBER** | **PREBOARD** | Revision, Preboard Ch-1-13 |  | |  | |
| **JANUARY13**  **UT** | Revision  4 | | | | | |
| **FEBRUARY** | Final Exams | | | | | |