AIR FORCE SCHOOL, BAMRAULI (2017-18)

Monthly Split-up Syllabus

Class: XI B Subject: Biotech

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Month** | **Name of the Book** | **Topic/Sub topic** | **No. of Periods Required** | **No. of Working Days** |
| **June** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Biotechnology-An overview** | **8** | **8** |
| **July** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Biomolecules: Building Blocks**  **-Nature(carbohydrates, fats, proteins and lipids)**  **-Structure and dynamics**  **Macromolecules- Structure and function**  **(carbohydrates, fats, proteins and lipids)** | **15**  9 | **25** |
| **Aug** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Macromolecules- Structure and function**  **(carbohydrates, fats, proteins and lipids)**  **Genetics**  **-principles**  **-Laws of genetics**  **-Gene interaction**  **-Mutataion**  **-Breeding techq.**  **-hybridisation** | **8**  16 | **25** |
| **Sep** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Genetics(cont..)** | **8** | **20** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Genes and genomes**  **-Discovery of DNA**  **-Replication**  **-Structure ofgene** | 16 |  |
| **Oct** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Genes and genomes(cont..)**  **- Geneticcode**  **-Transcription**  **-Translation**  **-Regulation of gene expression** | **18** | **20** |
| **Nov** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Genes and genomes(cont..)**  **-Mutation**  **-DNA repair**  **-Geneticdisorders**  **-Genome organization**  **Cell- Basic unit of life**  **Cell organelles and their function** | **14**  10 | **24** |
| **Dec** | **NCERT-**  **Biotechnology Biotechnology- S.Chand** | **Cell division**  **-mitosis**  **-meiosis Cell cycle**  **-Checkpoints** | **20** | **17** |