AIR FORCE SCHOOL, BAMRAULI (2017-18)

Monthly Split-up Syllabus

Class: XII B Subject: Biotech

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| **Month** | **Name of the Book** | **Topic/Sub topic** | **No. of Periods Required** | **No. of Working Days** |
| April | NCERT-Biotechnology Biotechnology- S.Chand | Recombinant DNA technology-Srategies-Libraries-Identification of recombinants-Hybridisation | 22 | 22 |
| May | NCERT-Biotechnology Biotechnology- S.Chand | Protein Structure and Function-World of proteins-Structure Function relationship-2D gel electrophoresis | 10 | 09 |
| Jun+July | NCERT-Biotechnology Biotechnology- S.Chand | Protein Structure and Function-Purification-MALDI-Protein based productsProtein engineering –Methods , structure and function-Proteomics-SDM-Achievements | 822 | 8+25 |
| Aug | NCERT-Biotechnology Biotechnology- S.Chand | Microbial cell culture and applications-Technq. And types-Scale-up-Preservation-Applications-Ethical issuesPlan cell, tissue and organ culture-Tools and Techniques-History-Organisation Of lab-Methods-Conservation | 1410 | 25 |
| Sep | NCERT-Biotechnology Biotechnology- | Plan cell, tissue and organ culture-Applications-Hybrids and cybrids | 12 | 20 |

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|  | S.Chand | -Haploid production-Micropropagation-Transgenic plantsHalf yearly |  |  |
| Oct | NCERT-Biotechnology Biotechnology- S.Chand | Animal cell culture- Tools and Techniques-History- Technq. and Methods-Large scale cultivation | 14 | 20 |
| Nov | NCERT-Biotechnology Biotechnology- S.ChandCBSE-Solved Sample Papers- Biotechnology- Arihant | Animal cell culture-Applications-Choice of expression system-Products-Hybridoma technology-ES cell culture-Ethical issues.Genomics and bioinformatics-History- Methods-Types of sequences used-Comparative genomics-Applications | 1014 | 24 |