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 products  Protein engineering –Methods , structure and function  -Proteomics  -SDM  -Achievements | 8  22 | 8+25 |
| Aug | NCERT-  Biotechnology Biotechnology- S.Chand | Microbial cell culture and applications  -Technq. And types  -Scale-up  -Preservation  -Applications  -Ethical issues  Plan cell, tissue and organ culture-Tools and Techniques  -History  -Organisation Of lab  -Methods  -Conservation | 14  10 | 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 plants  Half 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.Chand  CBSE-  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 | 10  14 | 24 |