

Unit-I BIOTECHNOLOGY
SEM-I

- 1) Ultra structure of prokaryotic cell? ¹⁵ 20M_u
- 2) Ultra structure of eukaryotic cell? ¹⁵ 25M_u
- 3) Write about specialized chromosomes? - 15M
- 4) Briefly describe about fluid mosaic model
(or) Sandwich model? - 4M_u
- 5) Write about chromosomal aberrations?
15/4M_u

Unit-II

- 1) Describe about mitosis stages? - 15M_u
- 2) Describe about meiosis stages? - 15M_u
- 3) Write about eukaryotic cell cycle? 4M_u
- 4) Write about senescence? 4M_u
- 5) Necrosis - 4M_u
- 6) Apoptosis - 4M_u

Unit-III

- 1) Give the note on law of segregation? 15M_u
- 2) Give the note on law of independent assortment? - 15M_u
- 3) Describe about non allelic interaction
(or) Epistasis?
- 4) Write about x-linked inheritance?
- 5) Write about multiple allelism?

- 6) microcephaly - 4M₁
- 7) penetrance - 4M₁
- 8) pleiotropism - 4M₁

Unit - IV

- 1) write about linkage? - 15M₁
- 2) Describe about non-mendelian inheritance of maternal effect - shell coiling in snail - 15M₁
- 3) write about cytoplasmic male sterility in maize? 15 or 2M₁
- 4) leaves variegation in mirabilis jalapa?
- 5) Hardy - Weinberg Equilibrium?