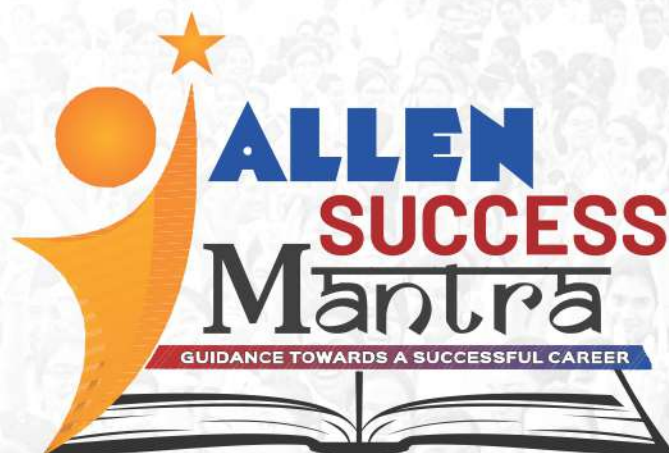


ALLEN Career Institute

Presents



A unique Initiative to provide all important information
and Career Updates on your mobile

IIT-JEE (Advanced) | JEE (Main) | NEET (UG) | AIIMS | NTSE | Olympiads

SALIENT FEATURES

COUNSELLING SUPPORT	ACADEMIC SUPPORT
✓ Important Information regarding different rounds of counselling ✓ Branch wise opening and closing rank details ✓ Guidance regarding which college, branch to choose and why ✓ Details of other forms that can be filled	✓ Revision notes of various topics to prepare for engineering and medical exams ✓ Chapter-wise analysis of weightage and level of toughness ✓ Tips & Strategies to score maximum marks ✓ Registration dates & information regarding various exams from class 6th to 12th

And many more tips & guidance



Now Get Smart Career Updates via SMS and E-Mail

Register at

www.allen.ac.in/allen-success-mantra

AT NO
COST



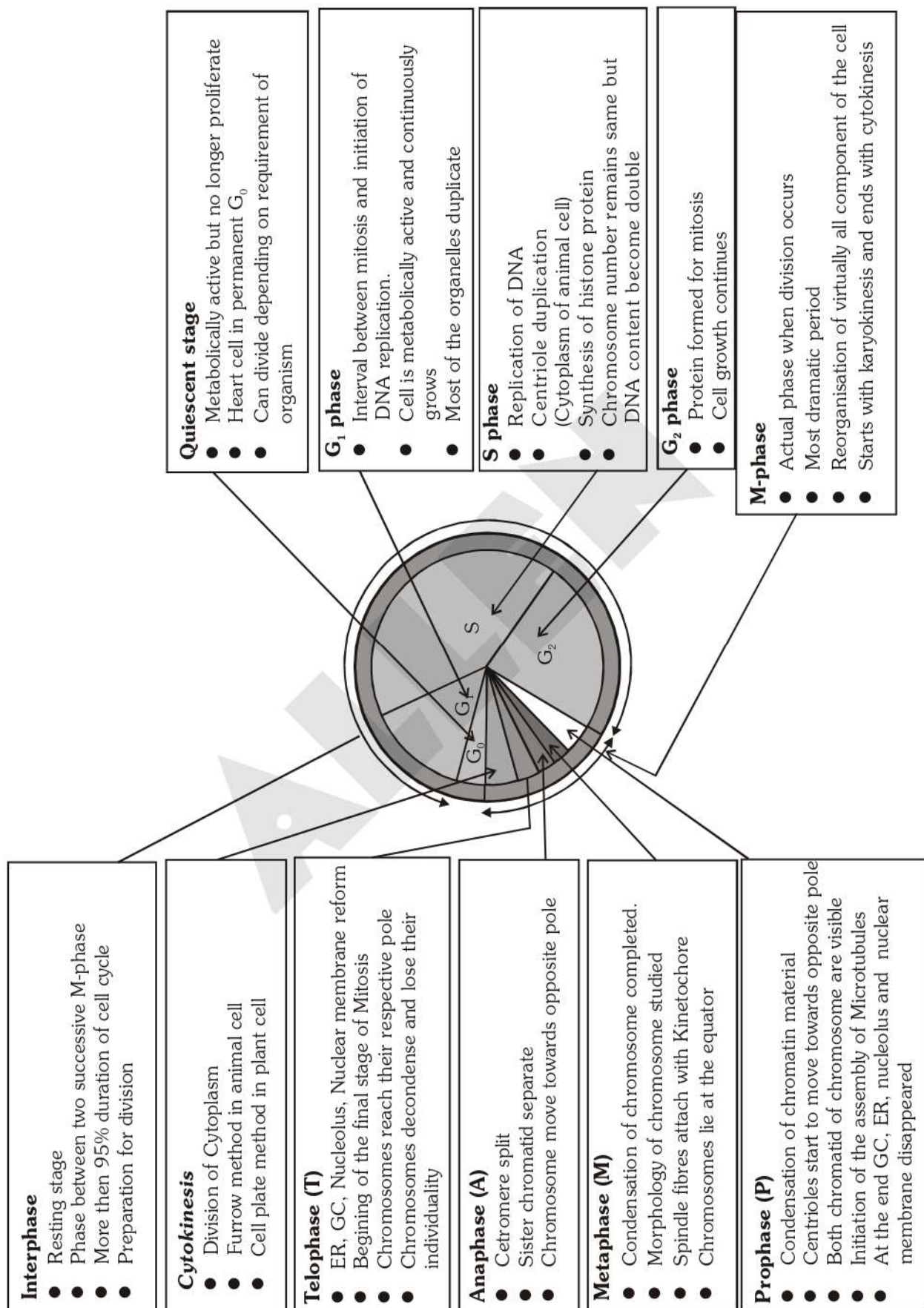
CORPORATE OFFICE :

"SANKALP", CP-6, Indra Vihar, Kota (Raj.),
India, 324005

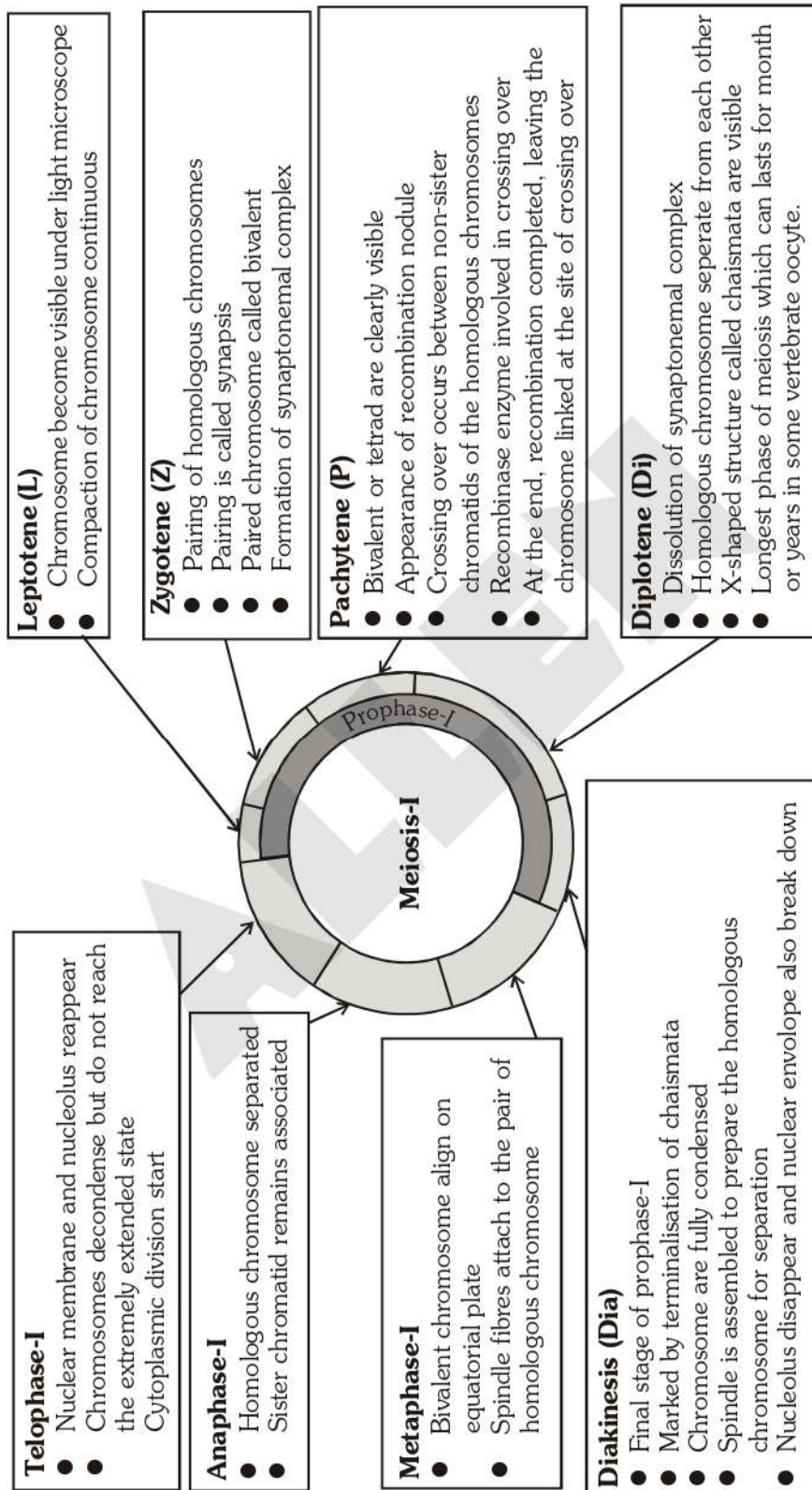
HELPLINE

0744-2757575

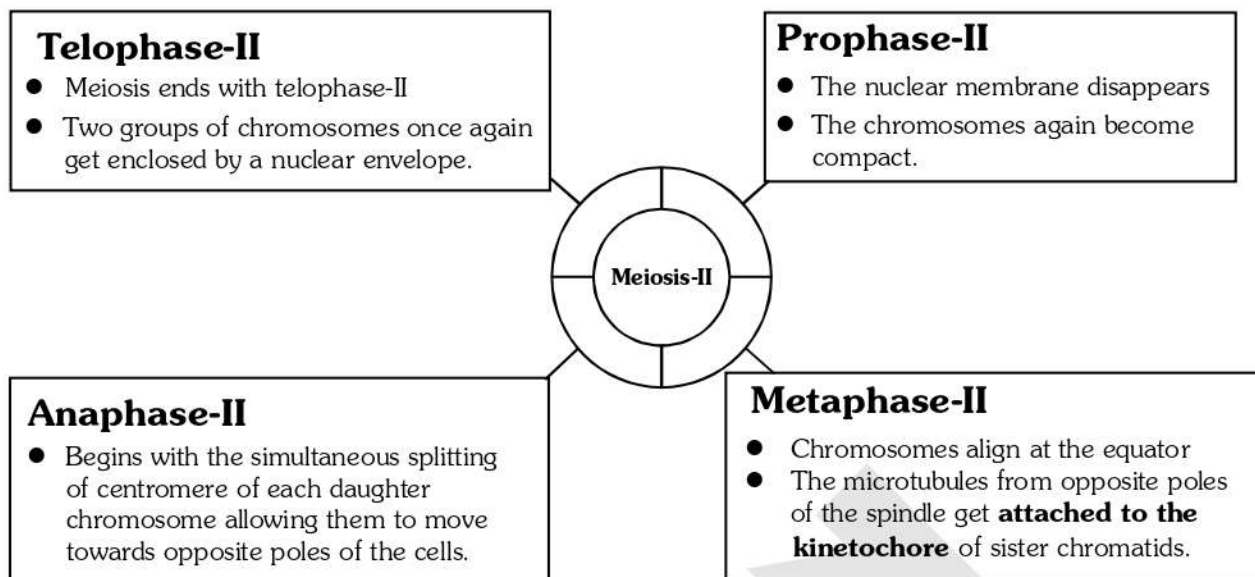
CELL CYCLE & CELL DIVISION (MITOSIS)



CELL CYCLE & CELL DIVISION (MEIOSIS)



MEIOSIS-II



Significance of mitosis :

- Mitosis or the equational division is usually restricted to the diploid cell. Where as some lower plants and some insects haploid cells mitotically divide.
- Mitosis results in the production of daughter cell with identical genetical complement usually.
- The growth of multicellular organism is due to mitosis.
- Cell growth results in disturbing the ratio between the nucleus and cytoplasm, which is restored by mitosis.
- The cells of the upper layer of the epidermis, cells of the lining of the gut, and blood cells are being constantly replaced by mitosis.
- Mitosis in the meristematic tissue – the apical and the lateral meristem (cambium), results in a continuous growth of plants throughout their life.

Significance of meiosis :

- Conservation** of specific chromosome number of each species is achieved across generation in sexually reproducing organism.
- Increases the **genetic variability** in the population of organisms from the one generation to the next.
- Variations are very important for the process of evolution.