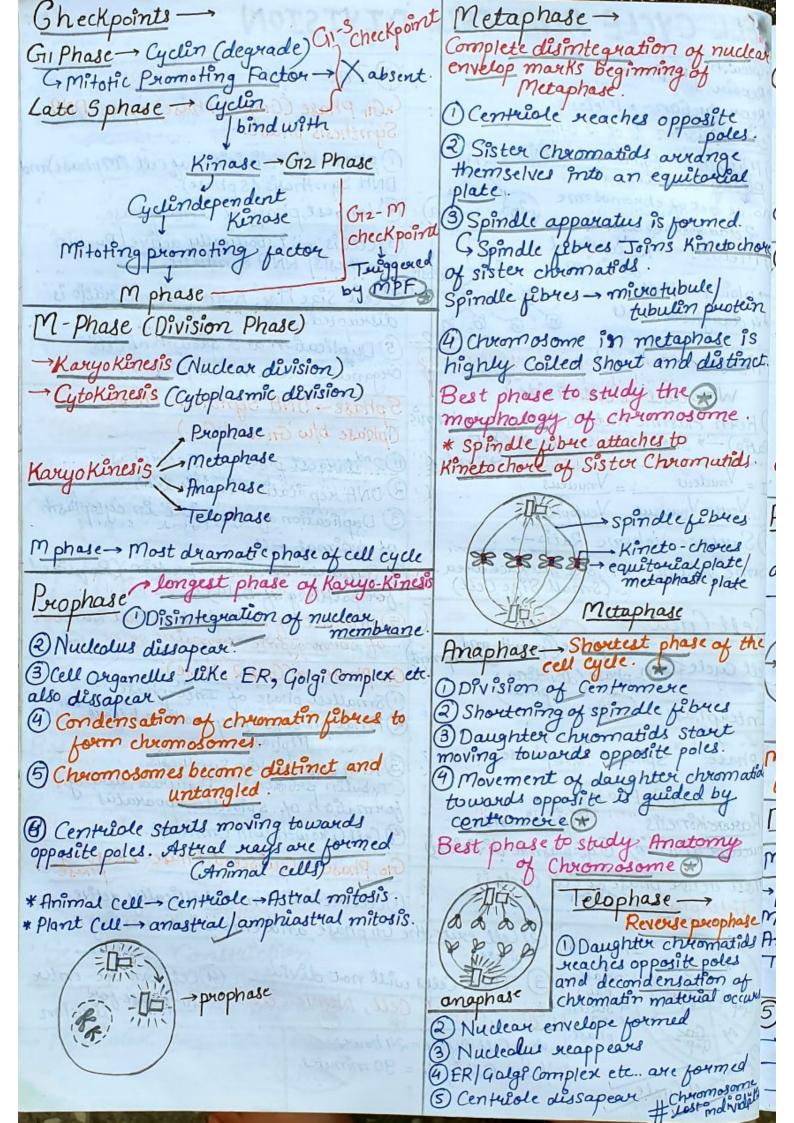
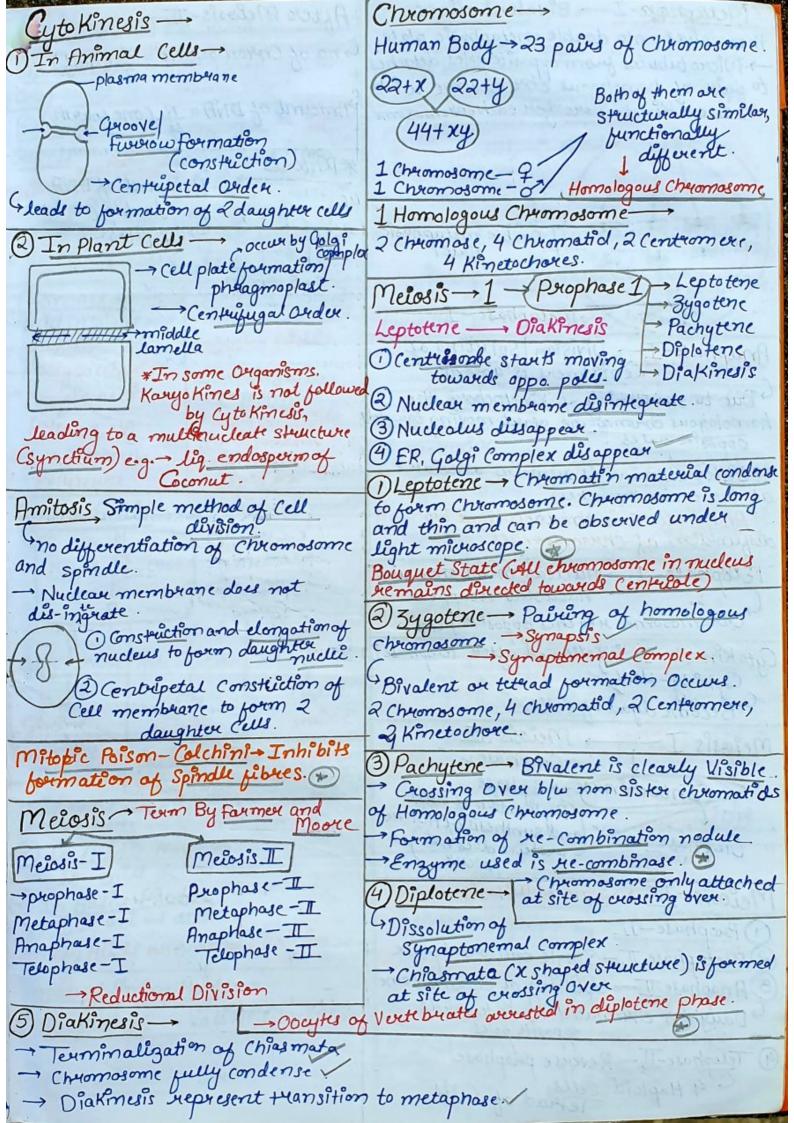
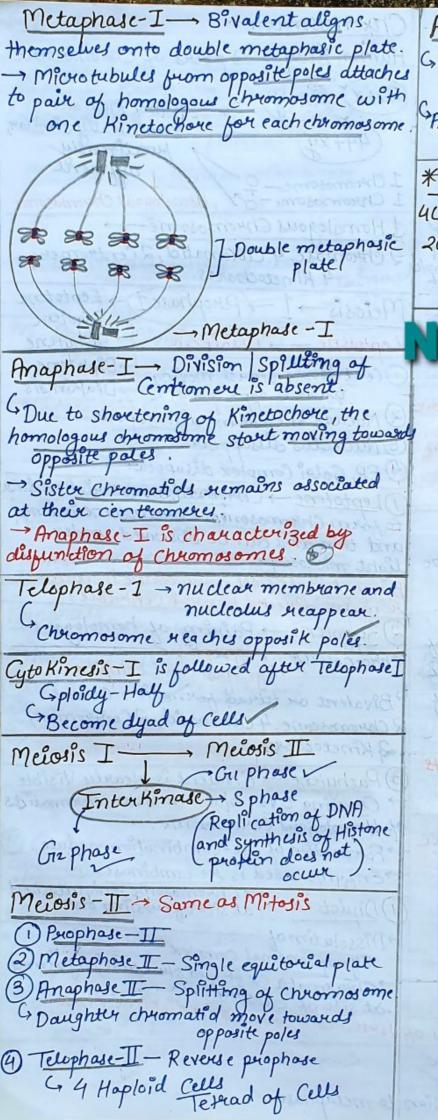
## CELL CYCLE AND CELL DIVISION - Growth J. Mitasis - Repaire J. Mitasis (1) Interphase → 95% time. - Reproduction → Meiosis. Gai Phase (Grap-1 Phase) - pric DNA Cell division is of 2 types-Synthesis phase -> 1) Mitosis - Equational division. On Ophase b/w division of cell (Mphase)and DNA Synthesis (Sphase). no. of set of chromosome (2) Longest phase of Interphase. 2 daughter Cells. 3) Cell is metabolically active / Protein synthesis | RNA Synthesis. 2 Melosis - Reductional melosis → ploidy → Half. → 4 daughter Cells @ (4) Cell Size Mse, Kern plasmic ratio is disrupted. (5) Duplication and growth of Cell organiles occur in Gu prase. Mitosis reum proposed by Hemming Why does a cell divide? Sphase - DNA Synthesis Phase. () Kurn Plasmic Ratio (Nucleo cytoplasmic Ratio) → Should be Constant (KI) (phase b/w Gn and Grz) GIndex 12 na largest phase of Interphase KI = Vnucleus = Vnucleus DNA replication in Nucleus. Veul- Vnucleus Veytoplasm (3) Duplication of centricle in cytoplasm (2) Surface Volume Ratio→ of animal cell. 4) Synthesis of Histone protein (Required for packing of DNA). 5) Amount of DNA doubles, but number of chuomosome remains some. Same Volume -> More Surface area. (Small Size Cell) Cell Cycle - 95% Cell Cycle M-phase (devidence) Interphase (devidence) Interphase 5% Giz Phase - (Grap 2 phase) Usmallest phase of Interphase. (2) Final phase for preparation before mphase. Giphase Sphase Graphase M-phase CytoKinesis 3 RNA and protein Synthesis. (Tubulin protein) - Required during formation of spindle apparatus. KaryoKinesis (4) Cell Growth will Continue. (nucleur division) (cytoplasmic division) Go Phase - Quiscent Phase - Restin Most active phase of Cell Cycle is Interphase. Ocell remains metabolically active. 2) Cell exit the Guphase and enters into nesting Gro Interphase Gop 1 ONP theis phase blu succession phase. (3) These Cells will not divide. (4) Cell can se-enter eg. → Heart Cell, Nerve Cell. Gu-phase for division Ang Cell Cycle = 24 howes. Phase Cycle Yeast Cell Cycle = 90 mmutes.







After Melosis-II
Gno. of Chromosome = n (Half)

Chromosome = n (Ha

## **JEET SLAYER**



