

ARJUNA NEET BATCH



CELL CYCLE AND CELL DIVISION



Growth, reproduction

Characteristic of organism indeed of cells.

All organism (sexually reproducing) start their life with a single cell called zygote.

multiple rounds of

cell division

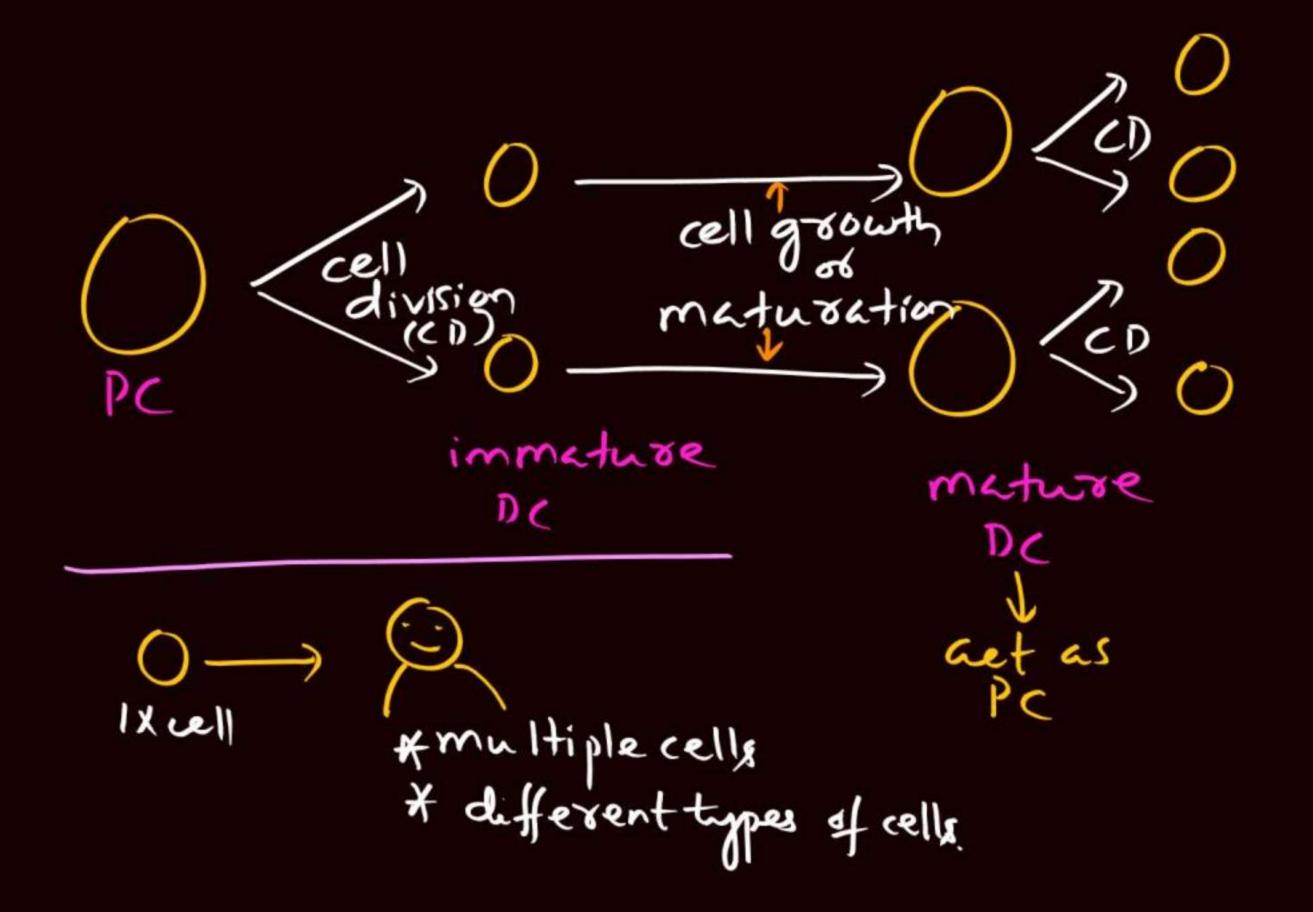
and cell differer

adult hody

millions of cells

different types of cells

HSC (haematopoetic stem cell) cell differentiation cD -> cell division cell differentiation



Cell division living organisms without cell without cell

DNA replication:-

- (i) called genome duplication
- (ii) occurs in S phase only, hence, discontinuous

Cell growth:-

w.r.t cytoplasm

- (i) It occurs throughout cell cycle, hence, continuous.
- (ii) Increase in cellular components.

Cell organelles, RNA, proteins, etc

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total DNA present in haploid set of chromosomes. number of chromosomes present in gamete. meiosis gamete -> 1

N-> no. of chromosome C - amount of DNA * Ano. of chromatin (chromosome) * amount of only becomes Cohesia double

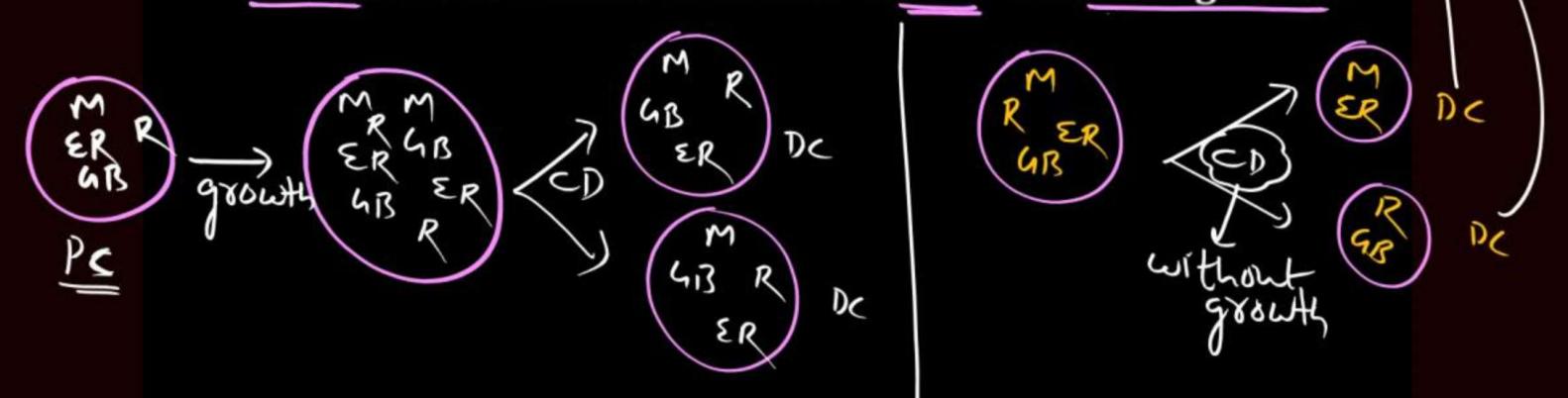


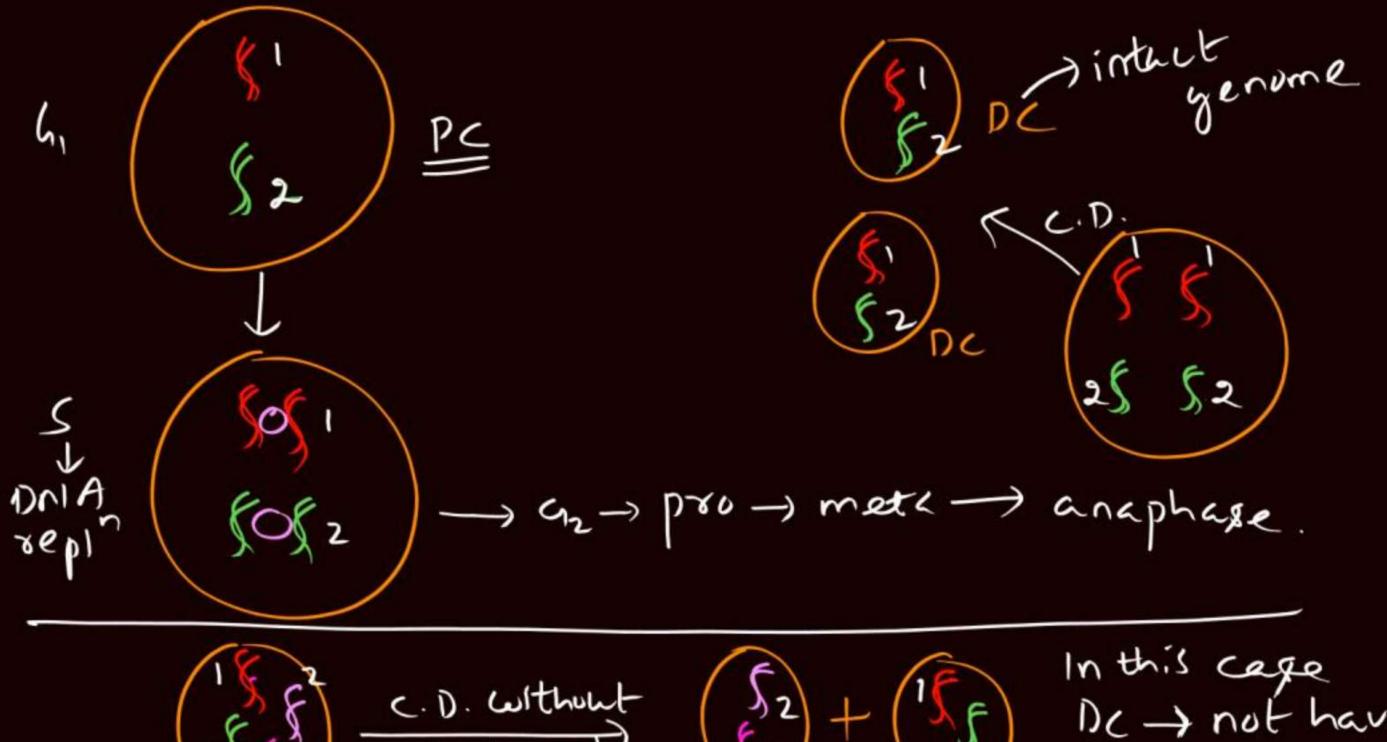


Occur in a co-ordinated manner



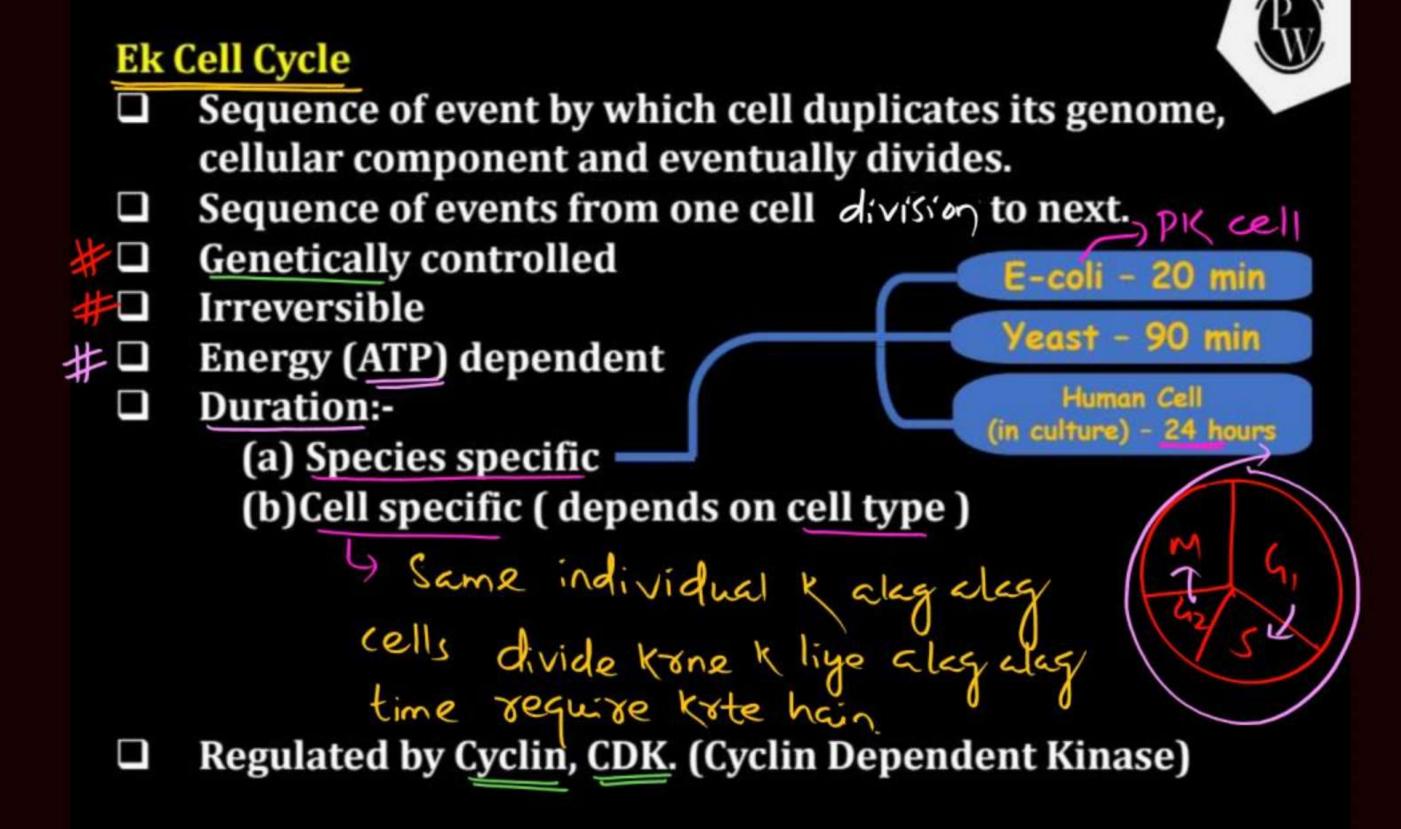
aproxum correct cell division + formation of DCs with intact genome.



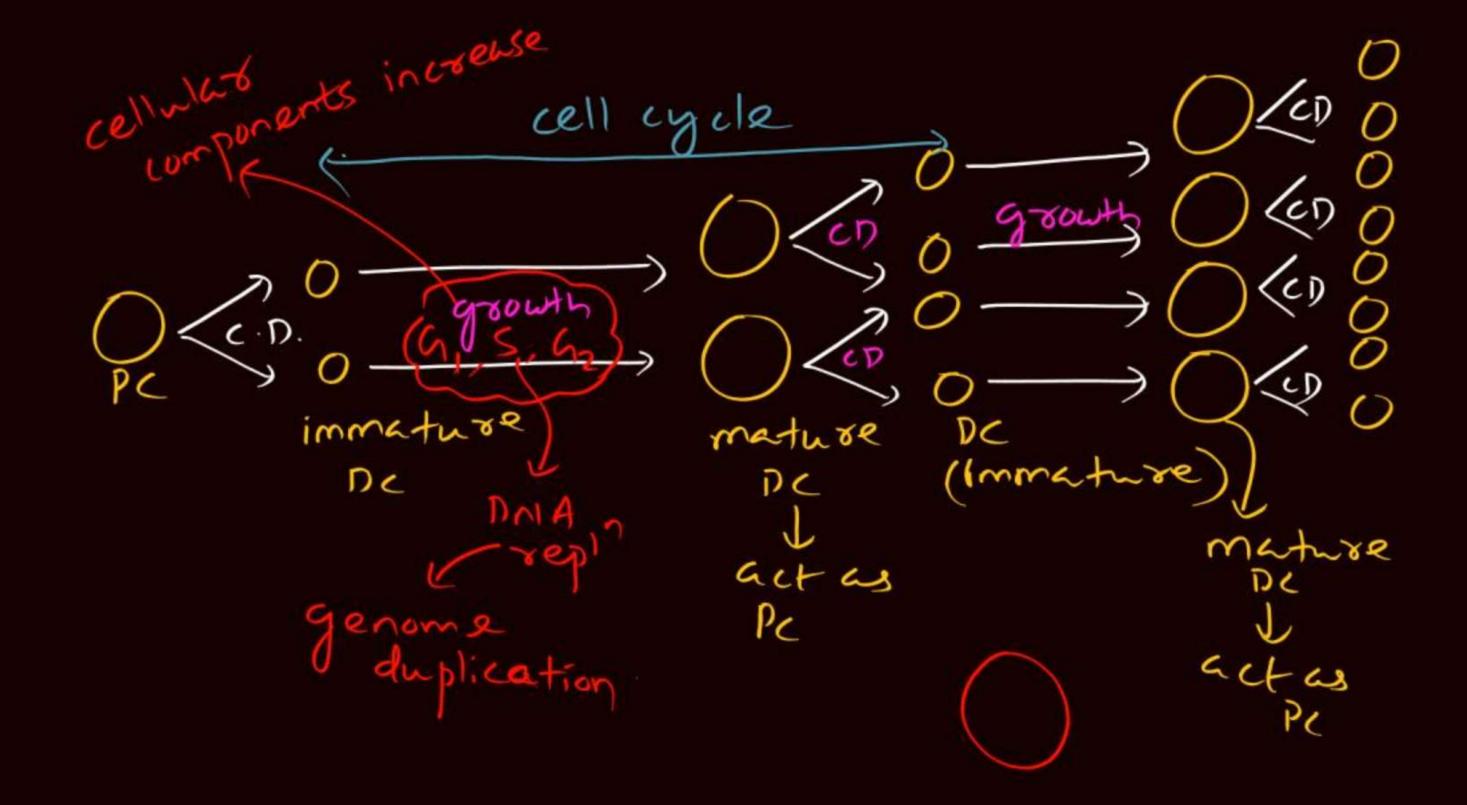


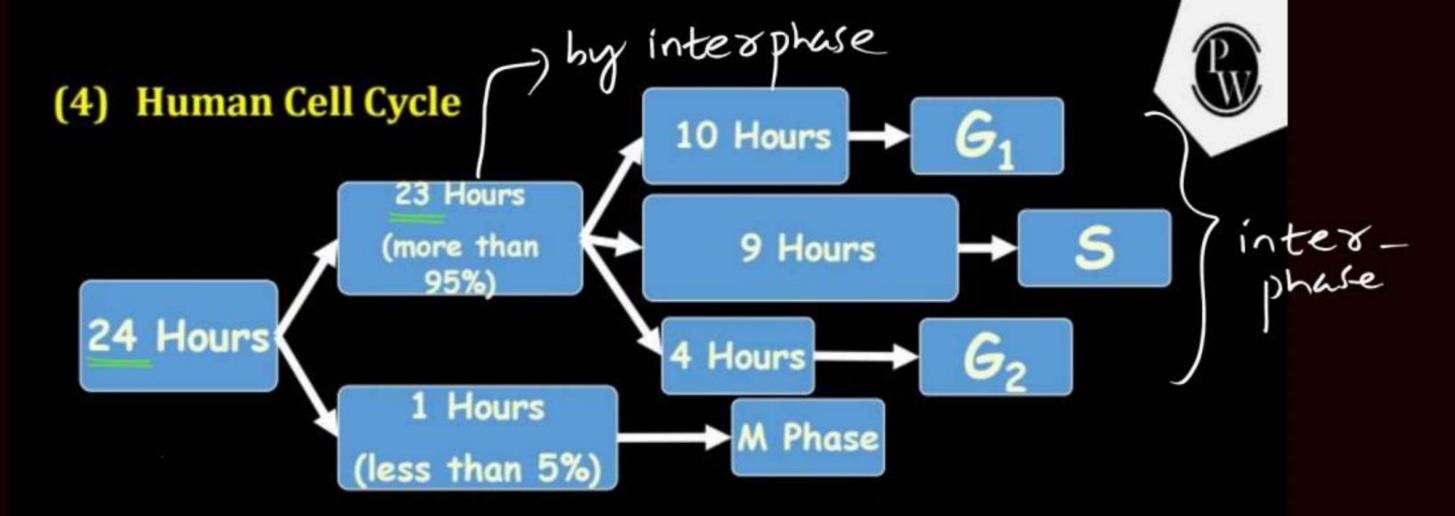
DNA repl.

DC -> not have intact genome.



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The decreasing order of duration of various phases of cell cycle -

 $G_1 > S > G_2 > Prophase > metaphase > telophase > Anaphase.$

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THANK YOU

