

- Growth is a fundamental property of all living organisms. Nucleus with chromosomes in cell
- The body of an adult person contains 10^{14} cells.
- Zygote is formed by the fertilization between male and female gametes.
- Cell division $\rightarrow$ Cell multiplication $\rightarrow$ Growth

• **Cell cycle :**

- The cell cycle is the series of events that takes place inside a cell thus leading to cell division and cell duplication.
- The period between two successive cell divisions is called cell cycle.
- The human cell divides in culture once in approximately every 24 hours.
- Yeast cell can complete one cell cycle in every 90 minutes.
- Cell cycle divide in two phases :

(1) **Interphase :**

- Materials duplicate. - It is recognized as chromatin material. - Organelle, DNA, centriole are duplicated. - It is divided in three subphases.

(i) **G₁ Phase (Gap-I phases) :**

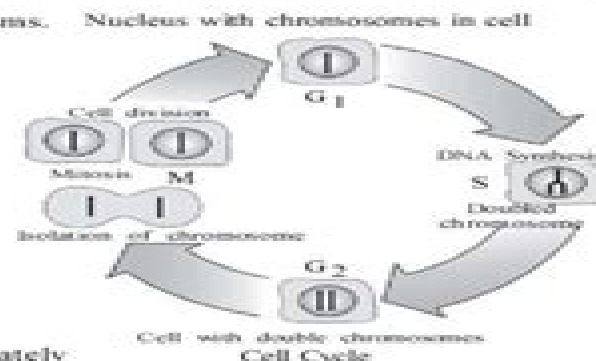
- Growth phase. - For the replication purpose DNA, essential enzyme protein and RNA are synthesized.

(ii) **S Phase (Synthesis or Replication phase) :**

- Duplication of DNA. - becomes 4C. - becomes 4C from 2C.

(iii) **G₂ Phase (Gap-II phase) :**

- Formation of protein. - For the mitosis formation of microtubules are necessary.



- (1) What is the essential criterium for growth of organisms ?
- (A) Increase in cell mass (B) Duplication of genetic material
- (C) Cell division (D) Cell degradation
- (2) Which of the following statement is incorrect for cell cycle ?
- (A) Duplication of cell occurs (B) Enhance the fertilisation of gamete cells
- (C) The period between two successive cell divisions (D) The series of events that takes place inside a cell
- (3) Which of the following statement is incorrect for Interphase ?
- (A) Replication of DNA (B) Duplication of centrioles
- (C) Cell size increases (D) Nuclear division occurs
- (4) During which phase does chromatin material present ?
- (A) Metaphase (B) Interphase (C) Anaphase (D) Telophase
- (5) Which subphase of the following is not of Interphase ?
- (A) G₁ (B) division (C) G₂ (D) S

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