

# Yakeen NEET 2.0 - 2026

## Cell Cycle and Cell Division Botany By Rupesh Chaudhary Sir

Practice Sheet - 01

1. How many statement are correct
  - A. Cell division important in few Living organism
  - B. During cell division, only DNA replication occur but not cell growth
  - C. Cell division, DNA replication, cell growth occur random
  - D. Cell growth in terms of cytoplasmic increase is discontinue process
  - E. DNA synthesis occur during one specific stage
  - F. Replicated chromosome (DNA) distributed to daughter nucleus by complex series of event and this event under genetic control

Options

(A) 6	(B) 4
(C) 5	(D) 2
2. Correct statement
  - (A) In animal, mitotic division seen only in haploid cell
  - (B) In male hone bee diploid cell undergoes mitosis
  - (C) in plant both haploid & diploid cell undergoes mitosis
  - (D) none
3. Correct statement
  - (A) Typical eukaryotes cell is human cell, which divide twice in 24 hours
  - (B) Duration of cell vary from organism to organism but not cell to cell
  - (C) Yeast cell cycle duration is 90 hours
  - (D) Cell cycle divided into two phase -Interphase & M phase (mitotic phase)
4. Correct statement
  - (A) M phase -when actual cell division/mitosis occur & interphase represent the phase between two M phase
  - (B) Human cell divide last for one hour in 24 hours
  - (C) Interphase more than 95% of cell cycle
  - (D) all are correct
5. Correct statement
  - (A) M phase start with cytokinesis and end with karyokinesis
  - (B) Interphase is resting phase, cell is preparing for division have both cell growth and DNA replication in orderly manner
  - (C) interphase divided into gap 1, S phase & G2 phase
  - (D) (B) & (C) are correct
6. Correct statement
  - A. G1 interval between mitosis & initiation of DNA replication
  - B. Cell actively, grown but replicate DNA
  - C. S phase - DNA REPLICATION occur, DNA amount increase to 4C if initial amount is 2C But no increase in chromosome number after S phase
  - D. Chromosome number remain as 2N
  - E. DNA replication begin in cytoplasm & centriole duplication in nucleus
  - F. In G-2 cell growth stop
  - G. In G-2 protein Are synthesis for mitosis

Option

(A) 6	(B) 5
(C) 4	(D) 2
7. Incorrect statement
  - (A) Some cell in adult (heart cell) Do not divide and enter permanent in G0 phase
  - (B) Some cell divide occasionally to replace the lost cell due to injury, they enter into G0 temporary
  - (C) G0 is inactive phase, cell is metabolic inactive in this phase and G0 is a part of interphase (cell cycle )
  - (D) Cell do not proliferate unless they are called on to do so in G0 phase



## Answer Key

1. (D)
2. (C)
3. (D)
4. (D)

5. (D)
6. (C)
7. (C)



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