

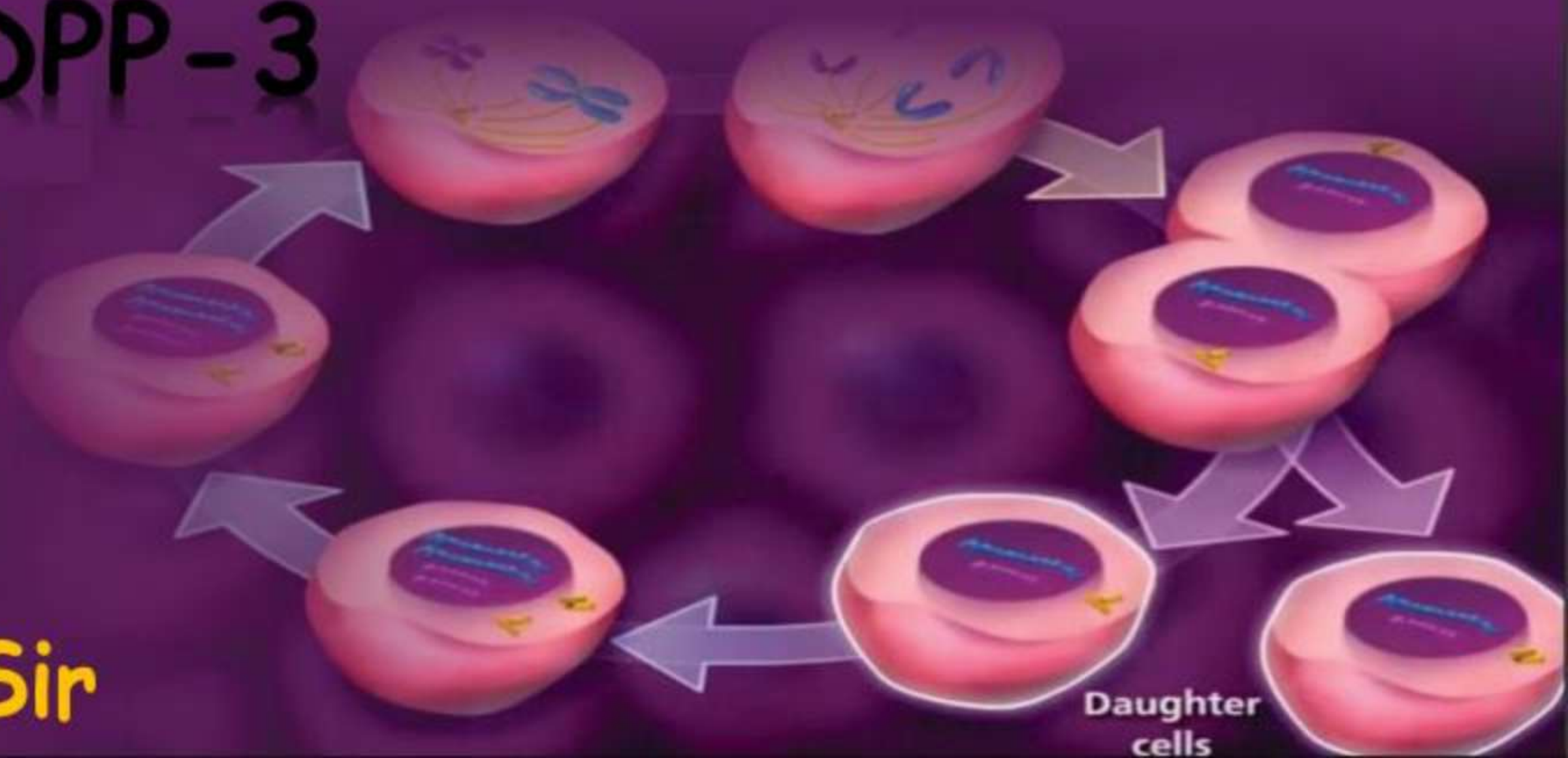


ARJUNA NEET BATCH



CELL CYCLE AND CELL DIVISION

DPP-3



By : Biswajit Sir



Q1. Which of the following is the longest phase of karyokinesis in mitosis?

A. Prophase
C. Anaphase

B. Metaphase
D. Telophase



$p80 > meta > telo > ana$





Q2. Which of the following is the shortest phase of entire cell cycle?

A. Metaphase

☒ B. Anaphase

C. Telophase

D. Interphase

$G_1 > S > G_2 > pro > meta > telo > ana$



Q3. Animal cell division is

A. Amphiastral ✓

B. Anastral ✗

C. Can be A or B ✗

D. Single aster is involved ✗

**✗
double**





Q5. In which phase of karyokinesis ER, nucleolus disappear completely?

☒ A. Late Prophase
C. Anaphase

B. Metaphase
D. Telophase

ER, NB \rightarrow disappear $\left\{ \begin{array}{l} \text{start} \rightarrow \text{early prophase} \\ \text{complete} \rightarrow \text{late prophase.} \end{array} \right.$





→ metaphasic plate

Q6. Equatorial plate is formed in

- A. Prophase**
- B. Transition to Metaphase**
- C. Anaphase**
- D. Metaphase**





Q7. Complete disappearance of nuclear membrane marks the beginning of

A. Metaphase
C. Telophase

B. Anaphase
D. Prophase



Q8. The best phase to study chromosomes is

A. Prophase

~~B. Metaphase~~

C. Anaphase

D. Telophase

chromosomes



Shortest, thickest



the study of chromosome
becomes easy.





Q9. The shape of chromosomes can be observed in

A. Prophase

B. Metaphase

C. Anaphase

D. Telophase



Q10. By which phase of cell cycle condensation of chromosomes gets completed?

A. late Prophase
C. Anaphase

☒ B. Metaphase
D. Telophase



Q11. In which phase of karyokinesis the sister chromatids separate?

A. Prophase
C. Anaphase

B. Metaphase
 D. Telophase

phases

separation of

mitosis \Rightarrow anaphase \longrightarrow Sister chromatids

meiosis $\left\{ \begin{array}{l} \text{anaphase I} \longrightarrow \text{homologous chromosomes} \\ \text{anaphase II} \longrightarrow \text{Sister chromatids} \end{array} \right.$



Q12. In S phase and G2 phase new DNA molecules formed are

- A. Distinct ✗
- B. Not distinct ✓
- C. Inetertwined ✓
- D. More than one ✓

S, G₂ → interphase

⇓
DNA_s

↓

chromatins →

+ indistinct
+ intertwined



Q13. In which phase of mitosis nucleolus reappear?

A. Prophase
C. Anaphase

B. Metaphase
D. Telophase

nucleolus → disappearance starts → early prophase
completes → late prophase
 reappear → telophase



Q14. In plants mitocytes can be

A. haploid ✓

B. Diploid ✓

C. Can be A or B

D. Always polyploidy ✗

→ cell undergoing mitosis



Q15. Which cell division is called equational division?

A. Mitosis ✓

B. Reductional division → *meiosis*

C. Somatic division ✓

~~D. More than one~~ ✓





Thank You बट्ट्यों

