



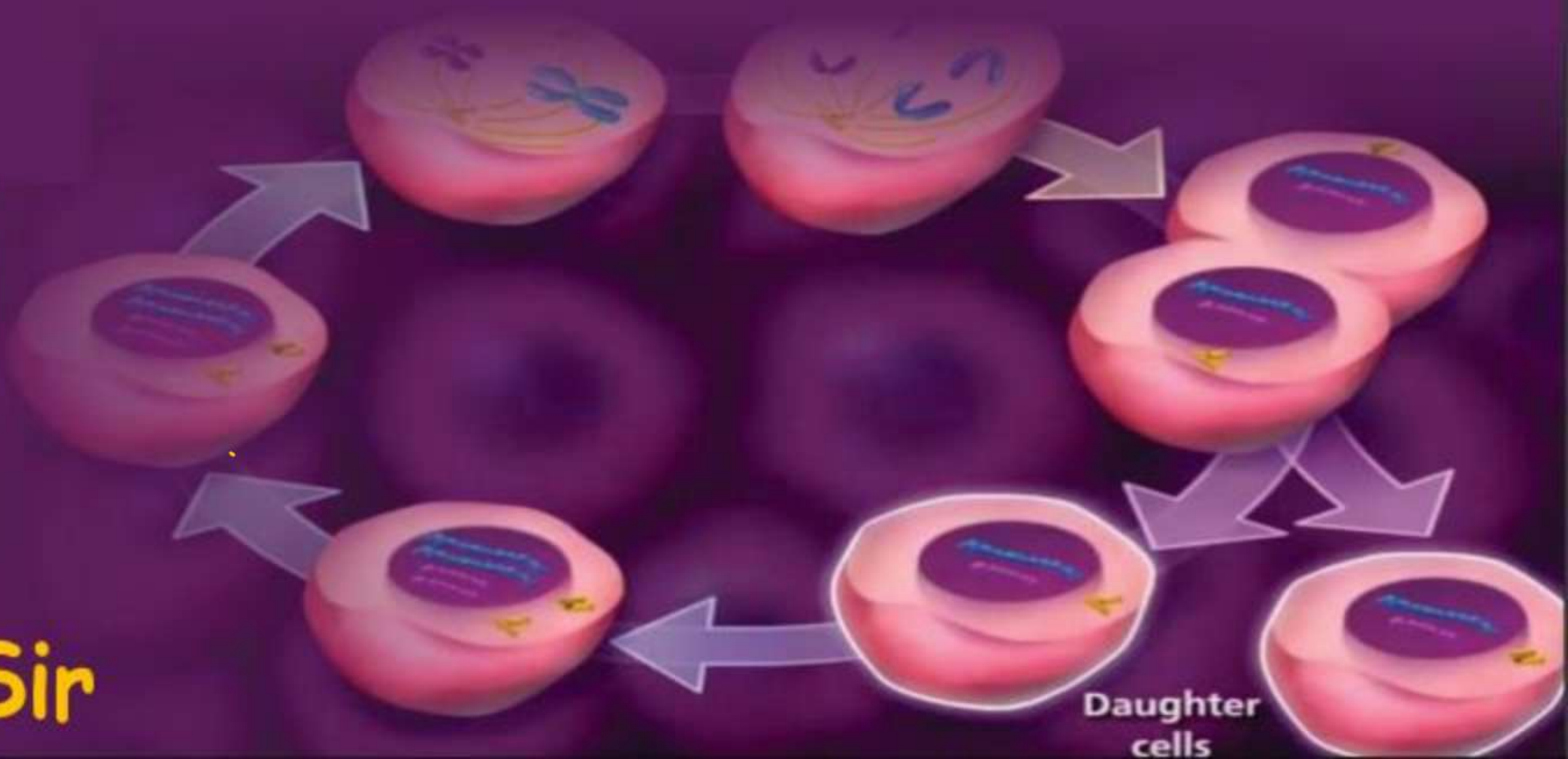
# ARJUNA NEET BATCH



## CELL CYCLE AND CELL DIVISION



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**Q1. .... and .... are characteristic of organisms**

- A. Growth and reproduction**
- B. Growth and senescence**
- C. Reproduction and senescence**
- D. All of the above**





**Q2. All sexually reproducing organisms start their life from**

A. Gametes

☒ B. Zygote

C. Embryo

D. Endosperm







**Q3. Cell growth with respect to cytoplasm is**

**A. Continuous ✓**

**B. Discontinuous ✗**

**C. Increase in cellular components ✓**

**D. More than one is true ✓**



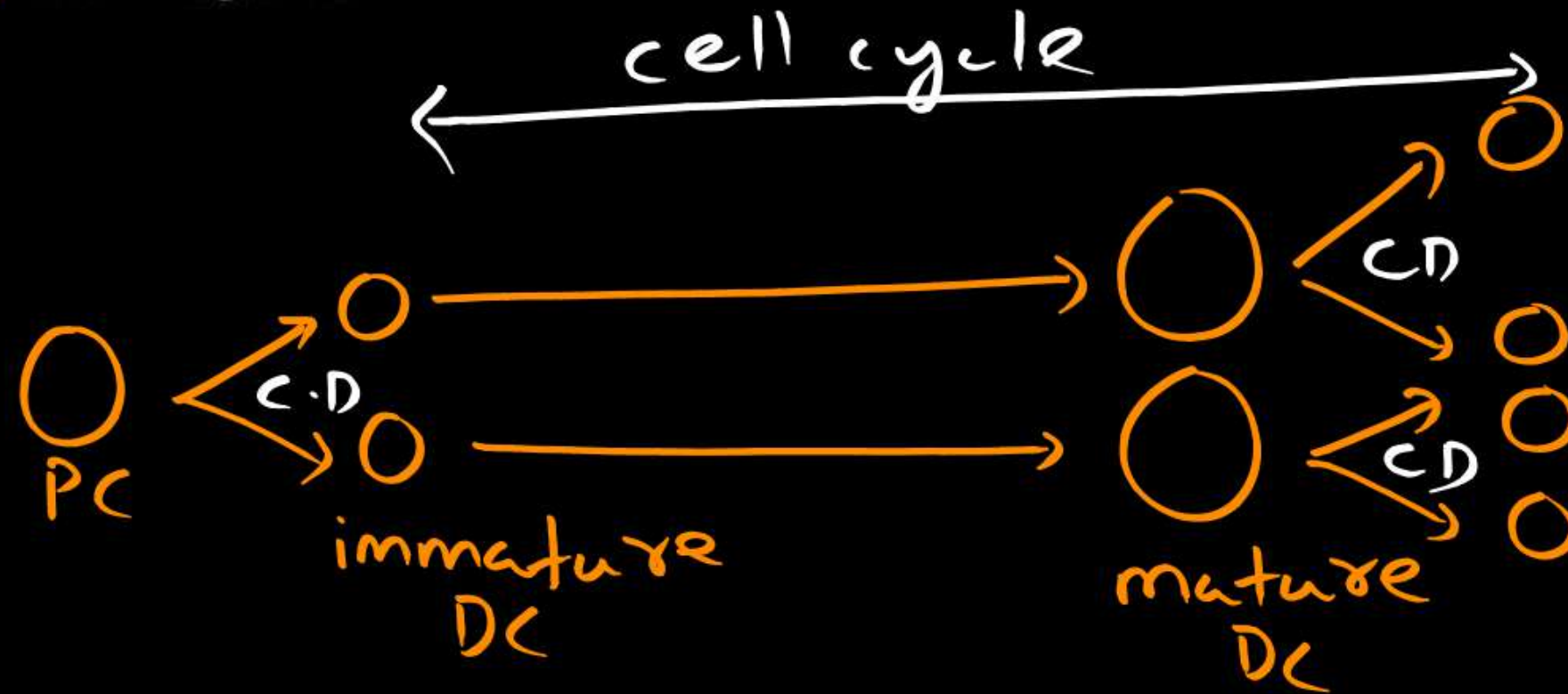
Q4. Sequence of events from one cell division to next is

A. Cell multiplication

B. Cell reproduction  $\rightarrow$  cell div

C. Apoptosis  $\rightarrow$  programmed cell death.

D. Cell cycle





**Q5. Cell cycle is**

- A. Reversible *irreversible*
- B. Independent of energy *energy dependent*
- C. Genetically controlled ✓
- D. All of the above





**Q6. Duration of cell cycle is**

- A. ~~Same~~ for all organisms
- B. ~~Same~~ for all cells of an organism
- C. Cell specific ✓
- D. All of the above





**Q7.** For a human cell in culture, the duration of cell cycle is

- A. Mostly consumed by M phase *interphase*
- 51. B. 95% duration of cell cycle is taken by most dramatic phase of cell cycle
- 95.1. C. 5% duration of cell cycle is taken by interphase
- D. ~~None~~







Q8. Which of the following is also known as resting phase?

A. M phase  $\alpha$

B. ~~Interphase~~

$\alpha$  C. Most dramatic phase  $\rightarrow$  M phase

D. More than one is true

interphase



Q9. Which of the following is the longest phase of cell cycle?

☒ A. G<sub>1</sub>  
C. S

B. G<sub>2</sub>  
D. M

↓ order of duration

$G_1 > S > G_2 > M$



**Q10. 10. In which phase of cell cycle most of the organelles increase in their number?**

☒ **A. G1**  
C. S

B. G2  
D. M

G<sub>1</sub> → most of cell organelles ↑  
S → centriole ↑  
G<sub>2</sub> → mitochondria, chloroplast, GB ↑







**Q11. In which phase of cell cycle histones are synthesized?**

**A. S**

**B. G2**

**C. G1**

**D. M**



Q12. In which phase of cell cycle semi-autonomous organelles duplicate?



A. M

B. G1

C. ☒ G2

D. S

↳ mitochondrion  
chloroplast  
(all plastids)



**Q13. What is the duration of cell cycle for yeast cells?**

A. 10 min

B. 20 mins → *E. coli*

C. 90 mins

D. 24 hours

↳ human cell  
in culture





Q14. Which of the following is most variable phase of cell cycle?

A. G2

~~B. G1~~

C. S

D. M

$G_1 \rightarrow$  + most durable  
+ most variable





**Q15. Which of the following is known as quiscent phase?**

A. G1

B. S

C. G2

D. G0





*Thank You बच्चों*

