

# ARJUNA NEET BATCH



### CELL CYCLE AND CELL DIVISION



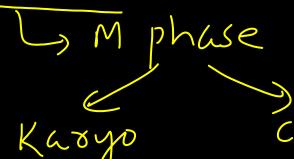
#### Q1. Find out the odd one w.r.t cell division proper

A. Karyokinesis 🕥

B. Cytokinesis

**C.** Quiescent stage

D. More than one



cytokinesis



#### Q2. In which phase of cell cycle genome gets duplicated?

A. G1

**B. G2** 

C/S

D. Go

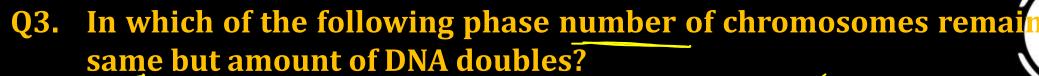
> DNIA replication

amount of DNA doubles

genome duplicates





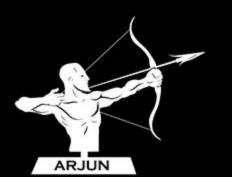


A. G1

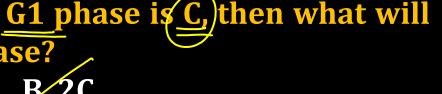
C. Go

B. Quiescent stage (

D,S



Q4. If amount of DNA in a cell in G1 phase is C, then what will be the amount DNA in G2 phase?







## Q5. In which phase of cell cycle maximum growth of cell take place?

B. G2

D. M phase





A/G1

C. S

#### Q6. Find out the odd one w.r.t interphase



B. Cytokinesis

C. Prophase

D. All of the above



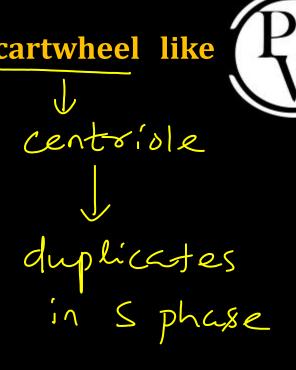




Q7. In which phase of cell cycle the structure with cartwheel like appearance undergoes duplication?

A. S C. G2 B. G1

D. M phase





#### Q8. Nerve cell is in which phase of cell cycle

A. Go
B. G1
C. S
D. Can be in any phase of cell cycle







(QC)



A. Cell will divide

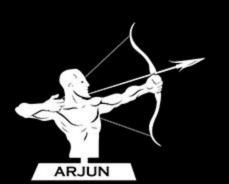
B. Cell will not divide X

C. Karyokinesis will take place but not cytokinesis X

D. Cytokinesis will take place but not karyokinesis

Qc mitogen energy

Cell divides Kanyo cytokinesis



#### Q10. Find out the odd one with respect to M phase

- A. Prophase ớ
- B. Metaphase
- C. Anaphase
- D. Quiescent stage (P)

  interphase

Kangokinesis Cytokinesis

+> prophase

-> metaphase

+> Telophase.





#### Q11. Cell in quiescent stage

A. Never divides X

B. Always divides 🗶

C. Divides when required

D. Metabolically inactive





#### Q12. In which phase of cell cycle proteins required for DNA packing are synthesized? -, histone

A. G1

**B. G2** 

D. M



Q13. In which phase of cell cycle the <u>organelle</u> involved in <u>packaging</u> of material show increase in its number?

P

A. G1

C. S

B. G2

D. M



## Q14. How many rounds of mitotic generation are required to produce 64 cell from a single cell?



A. 63

**C.** 6

B. 32

D. 64

$$X = 2^{\circ}$$
 $64 = 2^{\circ}$ 
 $\Rightarrow n = 6$ 

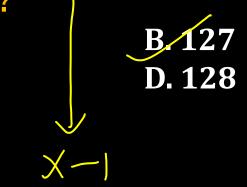


#### Q15. How many mitotic divisions are required to produce 128

cells from 1 cell?

**A.** 7

**C.** 64



128-1 = 127









# Thank lou gtt