

India's Number 1 Education App

## **BIOLOGY**

## NCERT - FULL MARKS BIOLOGY(TAMIL)

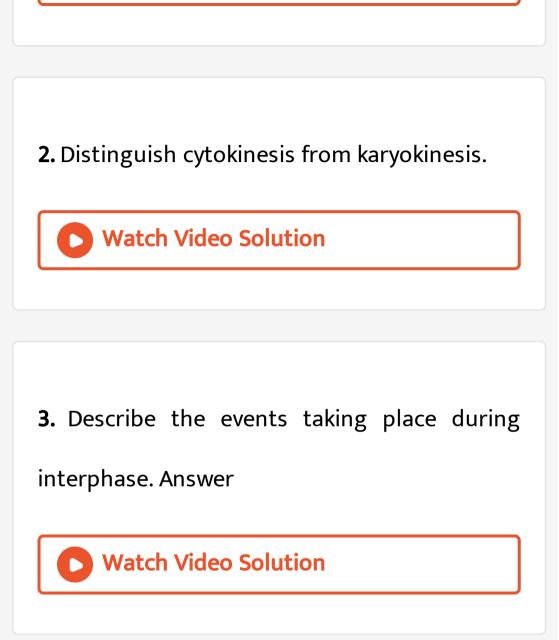
## **CELL CYCLE AND CELL DIVISION**



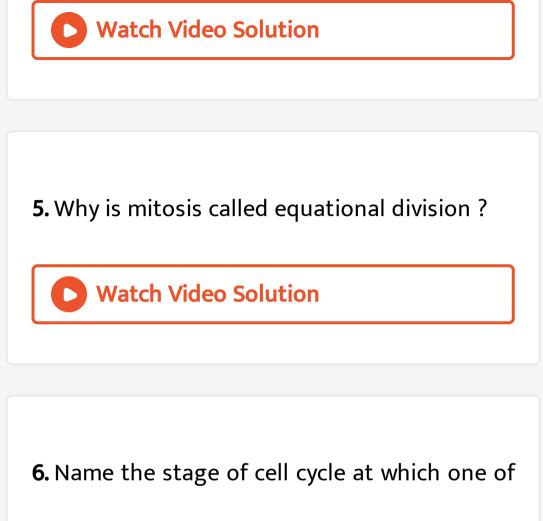
1. What is the average cell cycle span for a

mammalian cell?





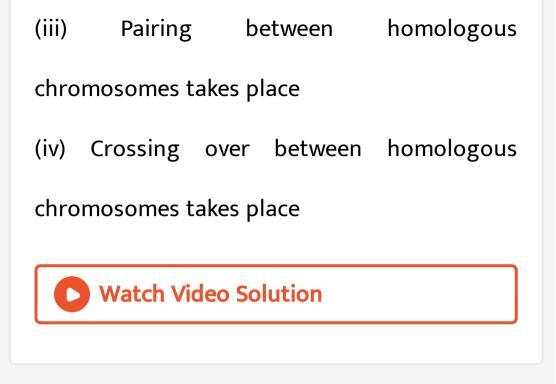
**4.** What is  $G_0$  (quiescent phase) of cell cycle?



the following events occur:

(i) Chromosomes are moved to spindle equator

(ii) Centromere splits and chromatids separate



7. Describe the following: (a) synapsis (b)

bivalent (c) chiasmata

Draw a diagram to illustrate your answer.

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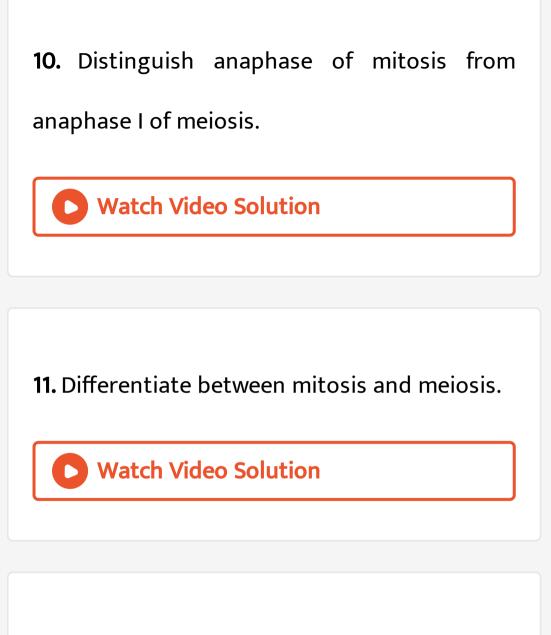
8. How does cytokinesis in plant cells differ from that in animal cells?
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9. Find examples where the four daughter cells

from meiosis are equal in size and where they

are found unequal in size.

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12. What is the significance of meiosis?

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- **13.** Discuss with your teacher about
- (i) haploid insects and lower plants where cell-

division occurs, and

(ii) some haploid cells in higher plants where

cell-division does not occur.



**14.** Can there be mitosis without DNA replication in S phase?





15. Can there be DNA replication without cell

division?



16. Analyse the events during every stage of cell cycle and notice how the following two parameters change(i) Number of chromosomes (N) per cell(ii) Amount of DNA content (C) per cell Answer

