





MAPE

Batch Code: 11-YN401MH



Botany



कीशिका चक्र एंत

Lecture No.-

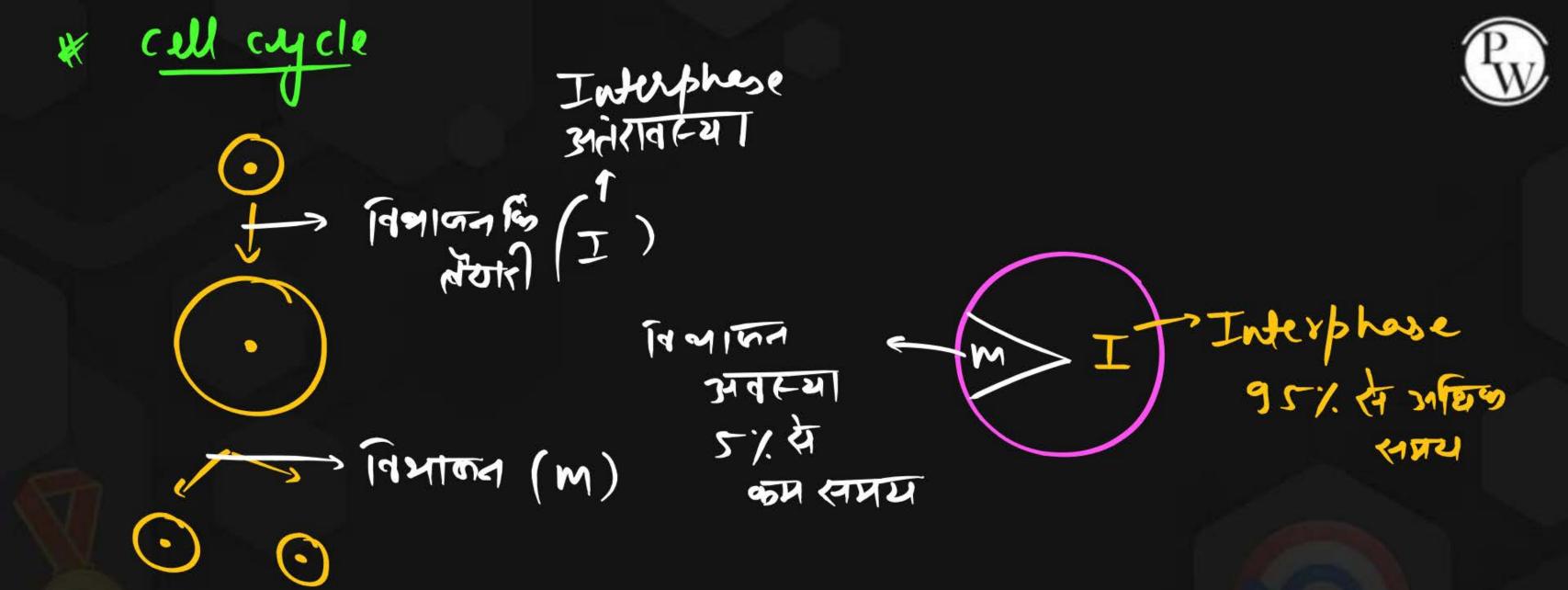


Dr. Jaiveer Chaudhary Sir





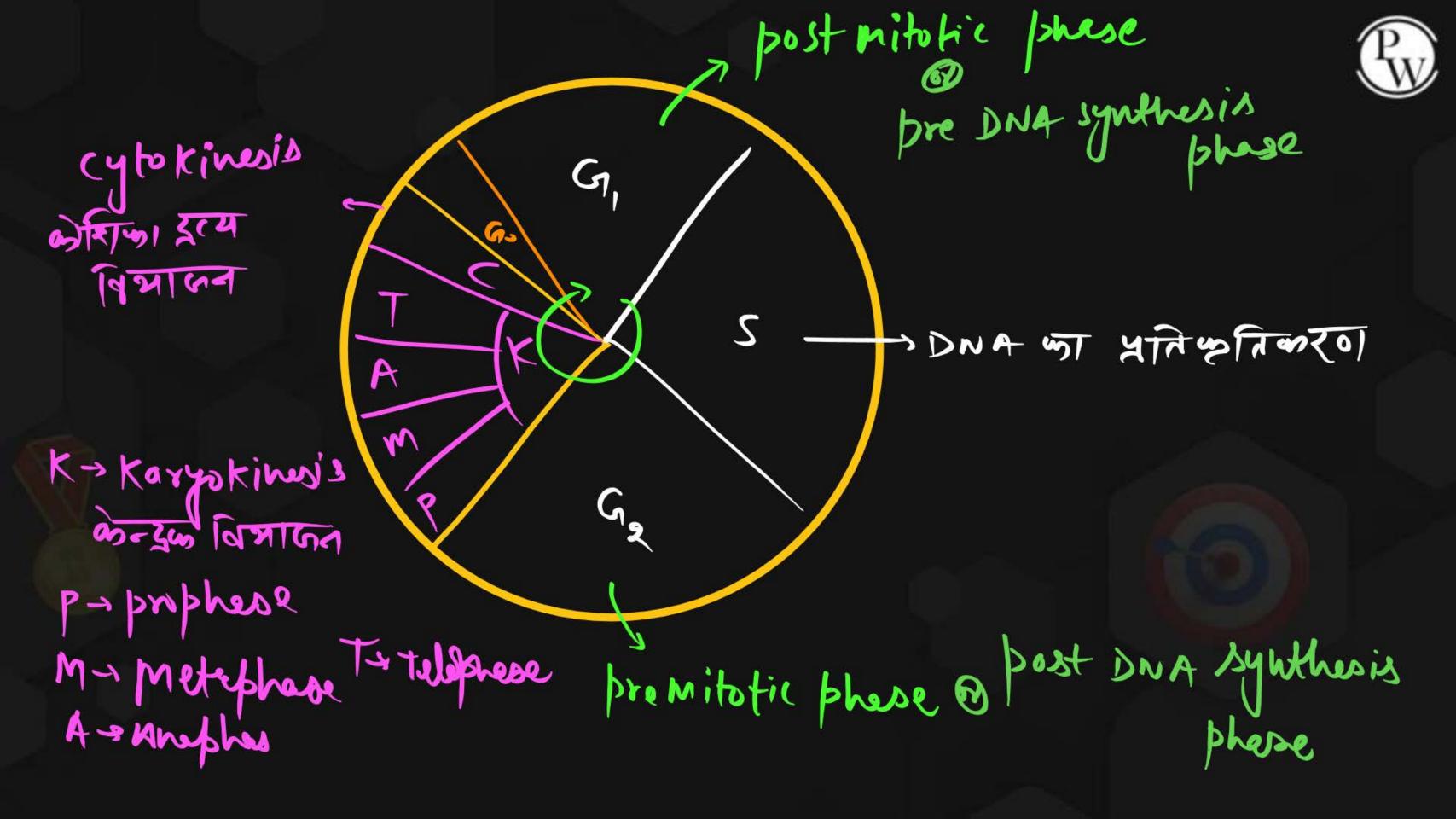
वोशिक। पक्ष





अवान्या म

त्राप्त अवस्था (क्याम अवस्था



Interphase अधिकाश कांग्रीकांगा का सिक्किकिर्ग Non Histone profein 51 (42 à 901)
(DNA and RNA polymerese) > DNA ST REJOIH Histone pretein 51 74101 तारक छन्रका हिग्रागन (ast s अवस्था में) Tubulene yith 51 AMIOI विशालन कि अंतिम तैयारी





Todays Lecture



Next Class Target



Topic

M 319F21

Topic

समध्यो विशापन

Topic

Topic

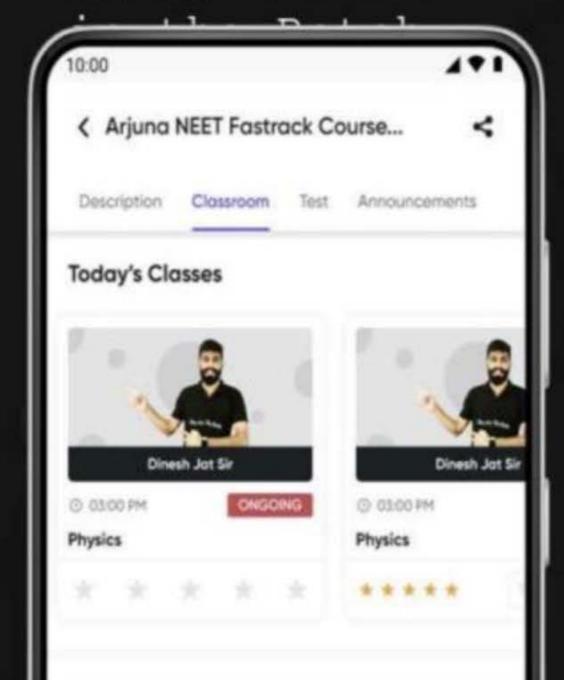








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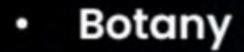


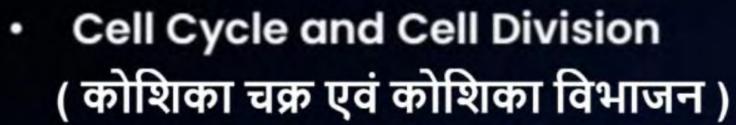




MAPETH

Batch Code: 11-YN401MH





Lecture No.- 02



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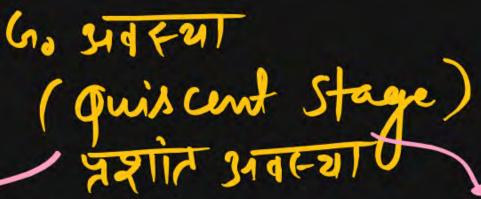


- 1 कोशिका चक्र
- अभसूत्री विभाजन
- 3
- 4



The sequence of events by which a cell duplicates its genome, synthesises the other constituents of the cell and eventually divides

into two daughter cells is termed cell cycle.





Exit (बाहर)

→ Nurve cell

→ kidny cell

→ muscle cll

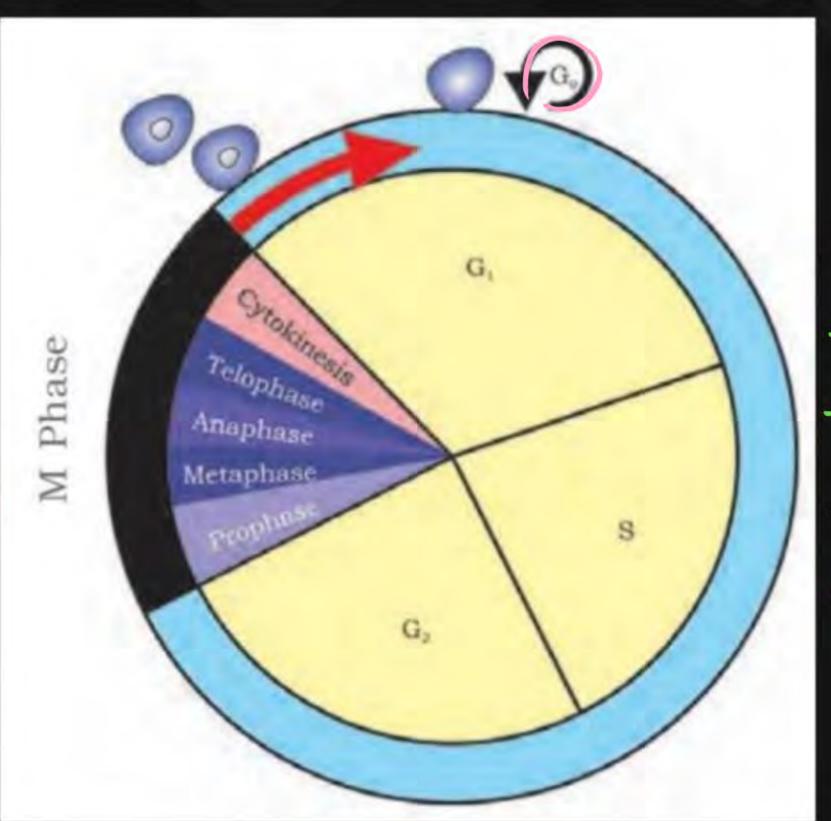
-> cork cell

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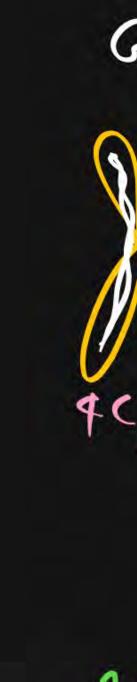
Heart cell

live all

Paranchyma
Utrolani onteini



dis kon sip







Mitosis

-> Prophese -> Metaphese -> Anaphase -> Telephase

समयुत्री विभाजन







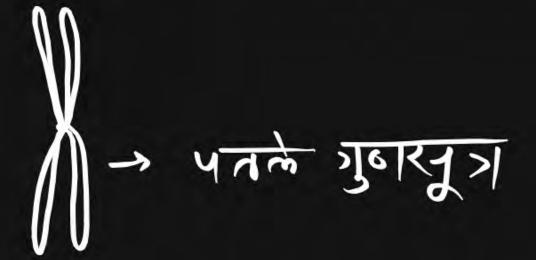
Prophase





Prophase is marked by the initiation of condensation of chromosomal material.

chromatin







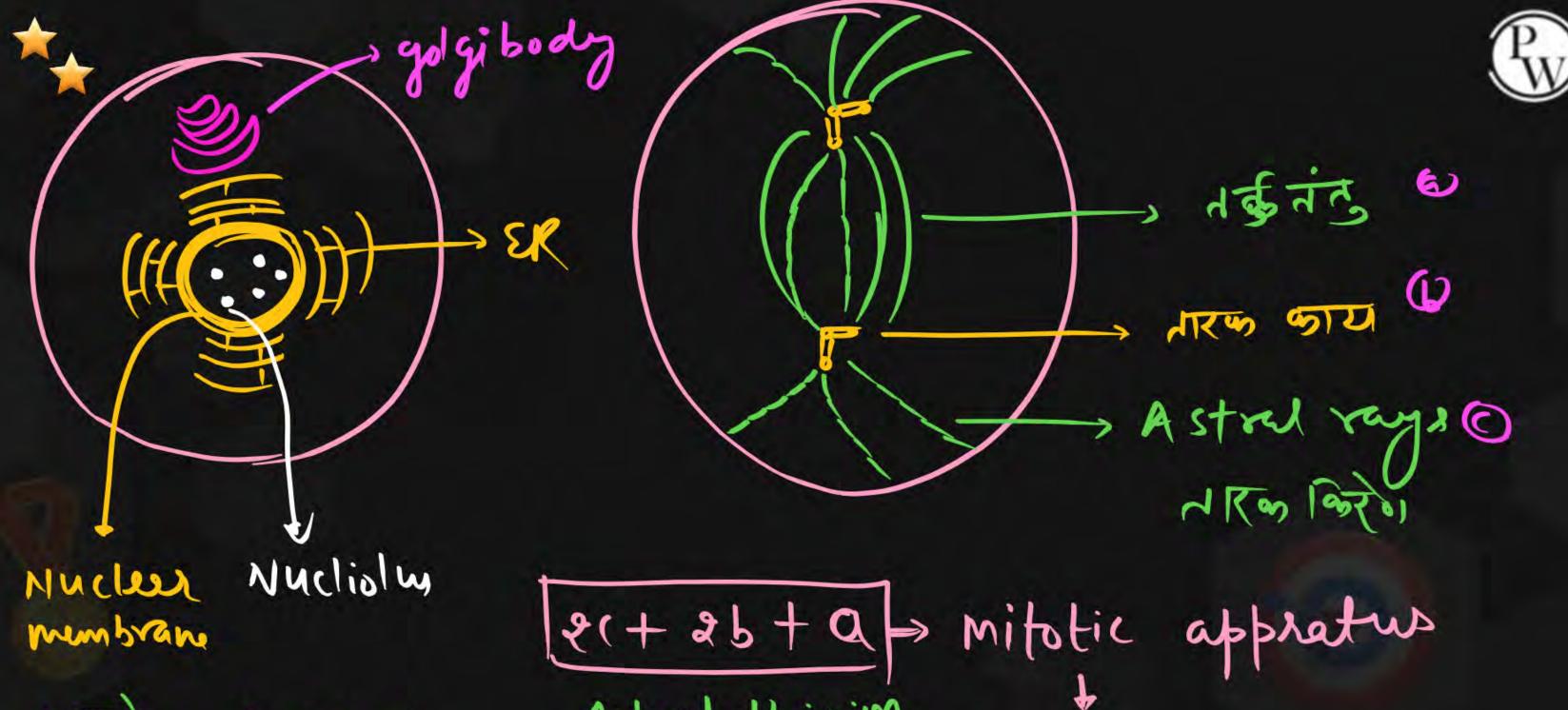
Chromosomal material condenses to form compact mitotic chromosomes. Chromosomes are seen to be composed of two chromatids attached together at the centromere.

Aster, (तारक) एक तंतु STEPPER TWO Chromatids
STEPPER STEPPER
Contrainer

Contrainer

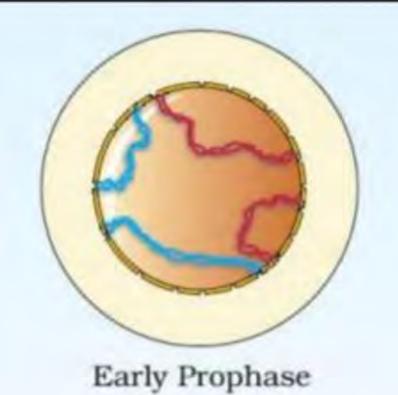
Centrosome which had undergone duplication during interphase, begins to move towards opposite poles of the cell. Each centrosome radiates out microtubules called asters. The two asters together with spindle fibres forms mitotic apparatus.

समस्त्री विश्वामन उपकर्ग



41341 -> An Astral division Astral divisim But only in animal









early prophere



late prophere



Metaphase



Condensation of chromosomes is completed and they can be observed clearly under the microscope. This then, is the stage at which morphology of chromosomes is most easily studied.

Thickust and shortest chromosome sit

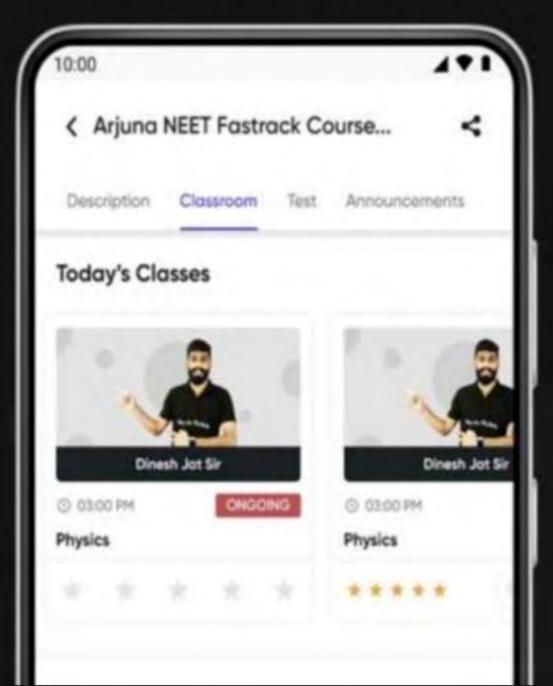


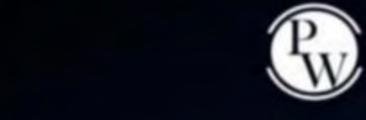
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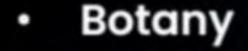
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Batch Code: 11-YN401MH



Cell Cycle and Cell Division
 (कोशिका चक्र एवं कोशिका विभाजन)

PhysicsWallah

Dr. Jaiveer Chaudhary Sir

Lecture No.-03





- 1 महभावस्था
- 2 पश्चा वर-था
- 34-44144-21
- कुर प्रश्न



Metaphase

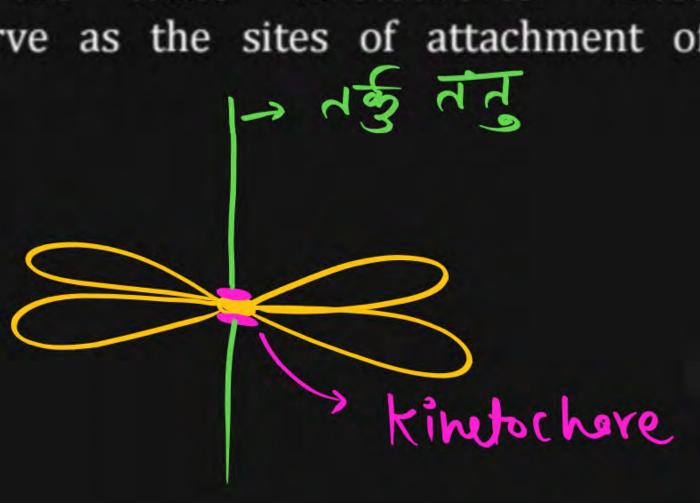


Condensation of chromosomes is completed and they can be observed clearly under the microscope. This then, is the stage at which morphology of chromosomes is most easily studied.

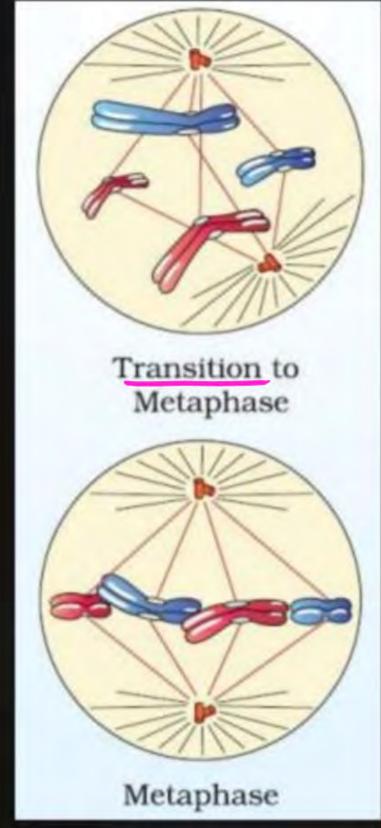


Metaphase

Small disc-shaped structures at the surface of the centromeres are called kinetochores. These structures serve as the sites of attachment of spindle fibres.





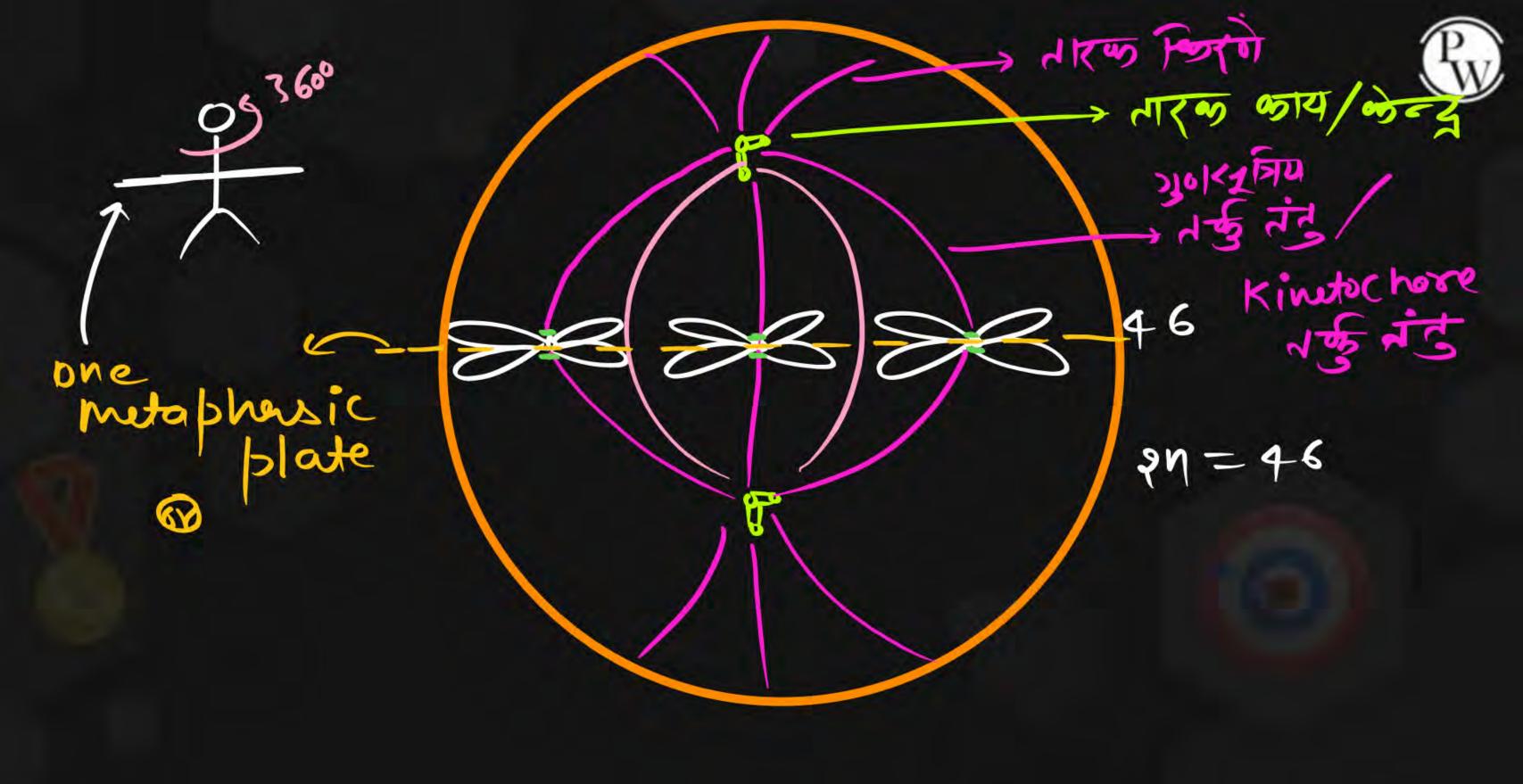






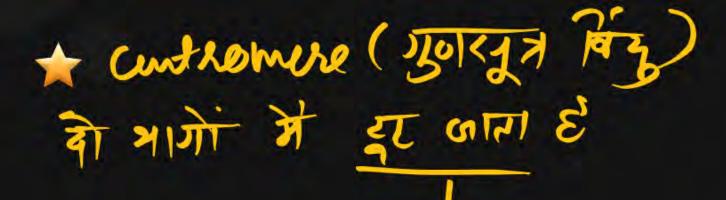
Spindle fibres attach to kinetochores of chromosomes.

Chromosomes are moved to spindle equator and get aligned along metaphase plate through spindle fibres to both poles.





Anaphase





At the onset of anaphase, each chromosome arranged at the metaphase plate is split simultaneously and the two daughter chromatids.

भिर्णि द्रिय वित्राजन Late Anorphase À प्रारंभ हो जाता है



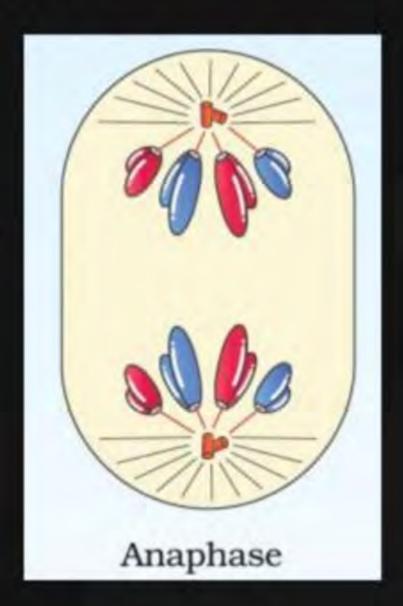
Anaphase



Thus, anaphase stage is characterised by the following key events:

) Centromeres split and chromatids separate.

Chromatids move to opposite poles. (Shape)



Shape (M)

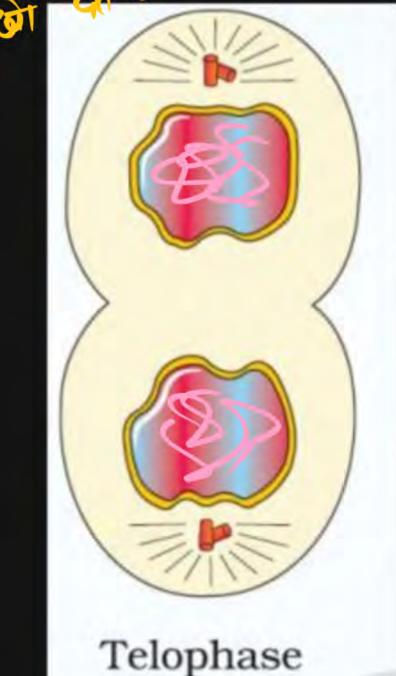
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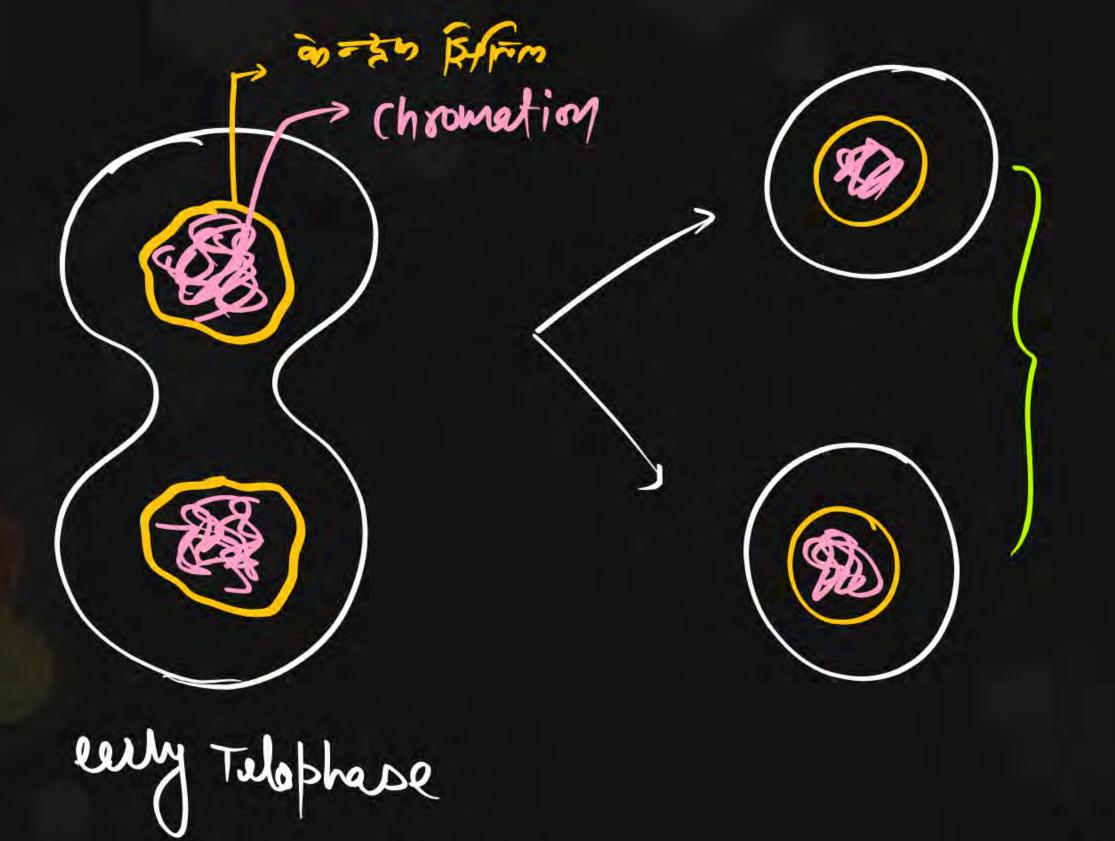


Telophase (Reverse Prophase)

THEIT > (hromation) years on

- 25-34 [Sifmo, 25-301, ER, 9.6. पुन: प्रकार हो जाती है।
- रमि भोशिकां पुनः प्रकट हो जाते ही





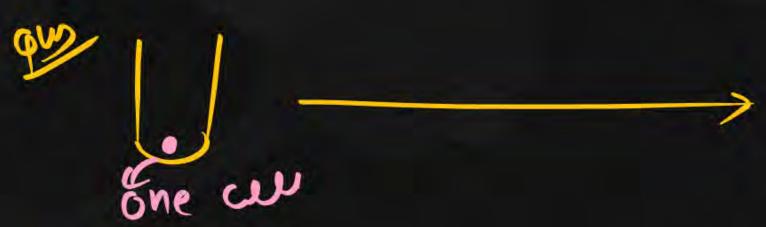


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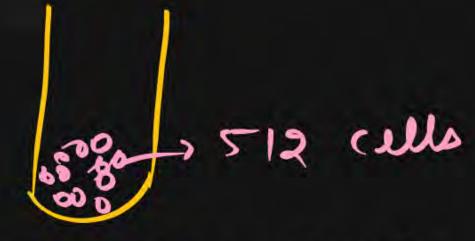


out one cell [Isolated] MENGO 4 3:58 AM रामरनूरा विशाजन एक विकालन में समय = 1min

full 3:59AM 4:00 AM



एक विभामन में लगा समय = 2 min



- (1) कोशिका विभाजनों छि संख्या ?
- अभाजनों में लगा समय = 7 १४०० में भेर का समय = 7 १४०० में १४० में १४०

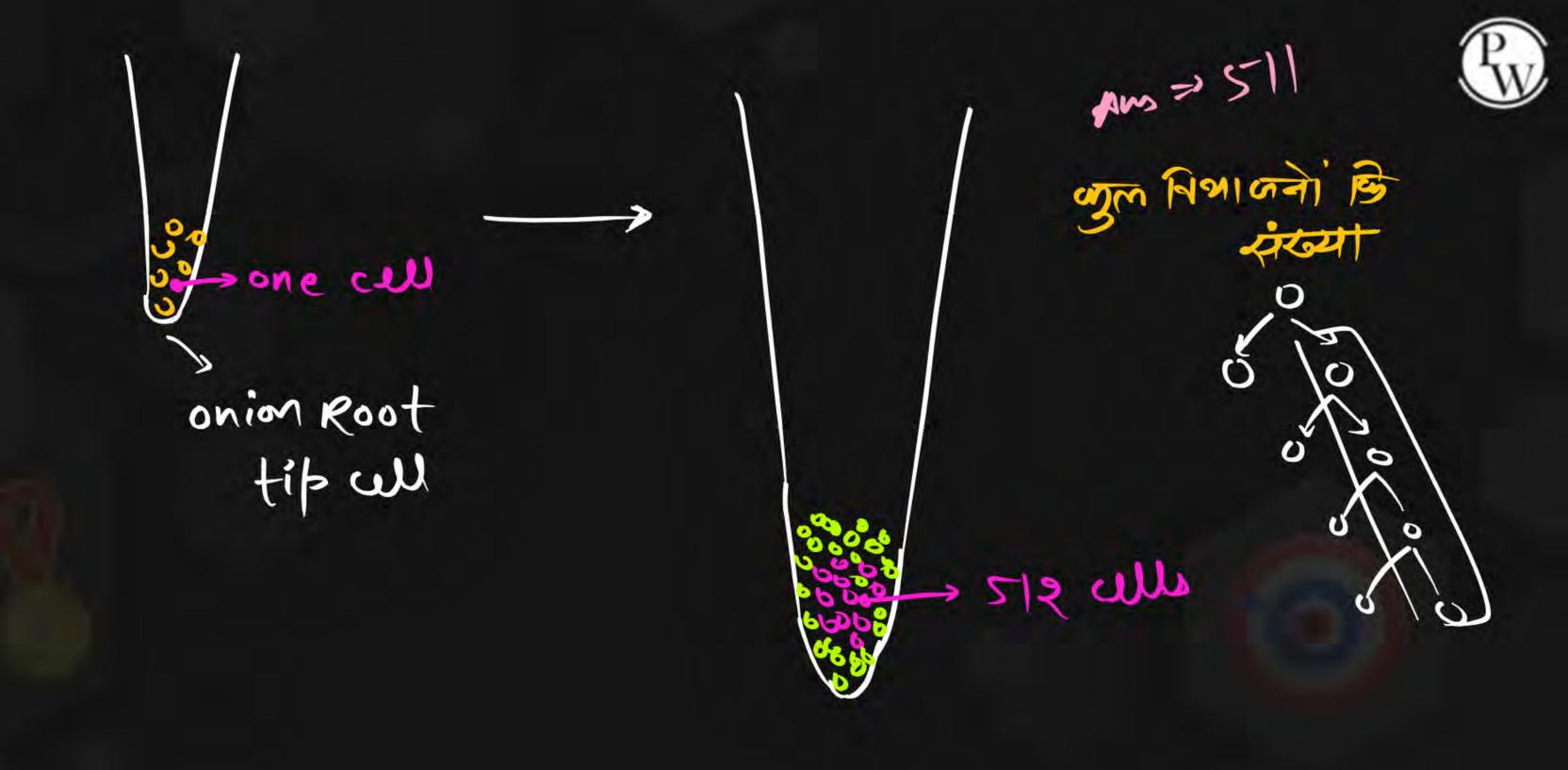
$$1 \xrightarrow{21} 2 \xrightarrow{9M} 4 \xrightarrow{2M} 8 \xrightarrow{2M} |6 \xrightarrow{2M} |2 \xrightarrow{$$





n विभाजनों के पश्चात = व







Next Class Target



Topic

कोशिक। इत्य निमापन

Topic

अर्धसूनी विघाजन

Topic

Topic

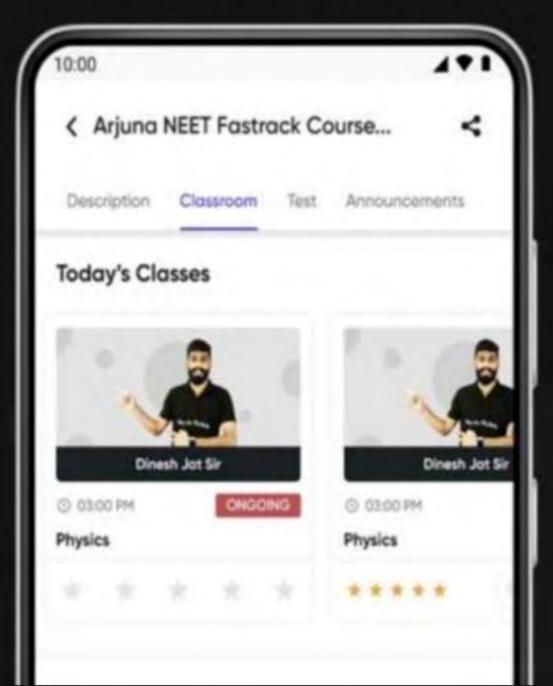


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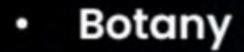






MAPETH

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• Cell Cycle and Cell Division (कोशिका चक्र एवं कोशिका विभाजन)

Lecture No.-04

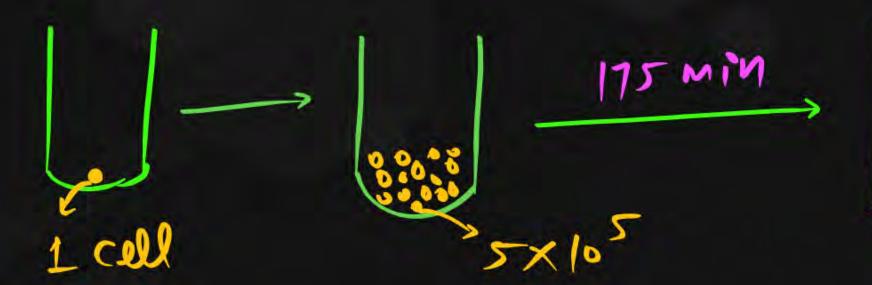


Dr. Jaiveer Chaudhary Sir





- विश्वा इत्य विभाजन
- अर्धर्तृती विभाजन
- 3
- 4



विभाक्तन में



mon (1944 = 35 min

$$5 \times 10^{5} + 32$$



Cytokinesis

start -> late Anatherse -> completed -> Telaphase



In Animals

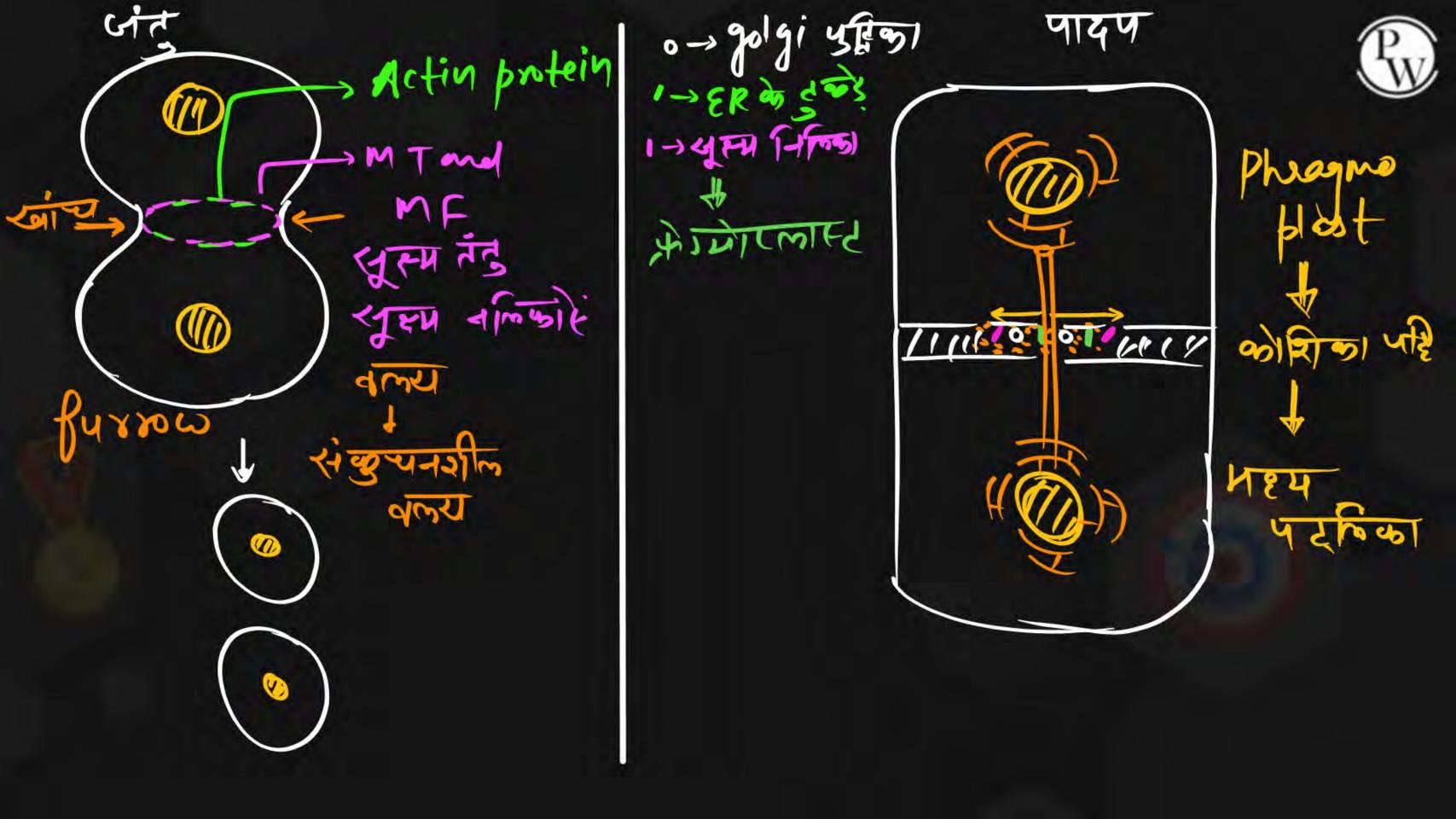
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mid body farmation

उ अभिकेन्द्रिय अकर का

In plants

अग्रिमाटलास्ट कोशिका पह प्रथ्य पहिल्ला

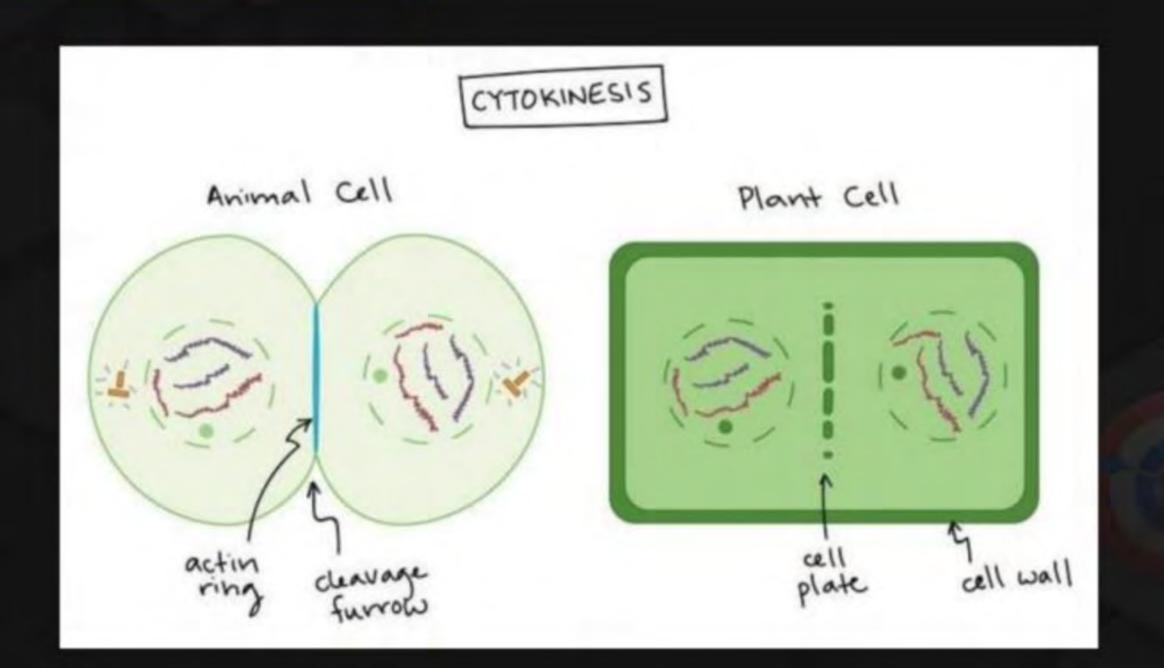
अपकेन्द्रिम प्राण्य का





Cytokinesis







Modification of Mitosis

syn cyte

cenocyte



$$\bigcirc \frac{k}{c_{x}}$$

बढ्क न्ड्रिक य उमत्या (Synufte)

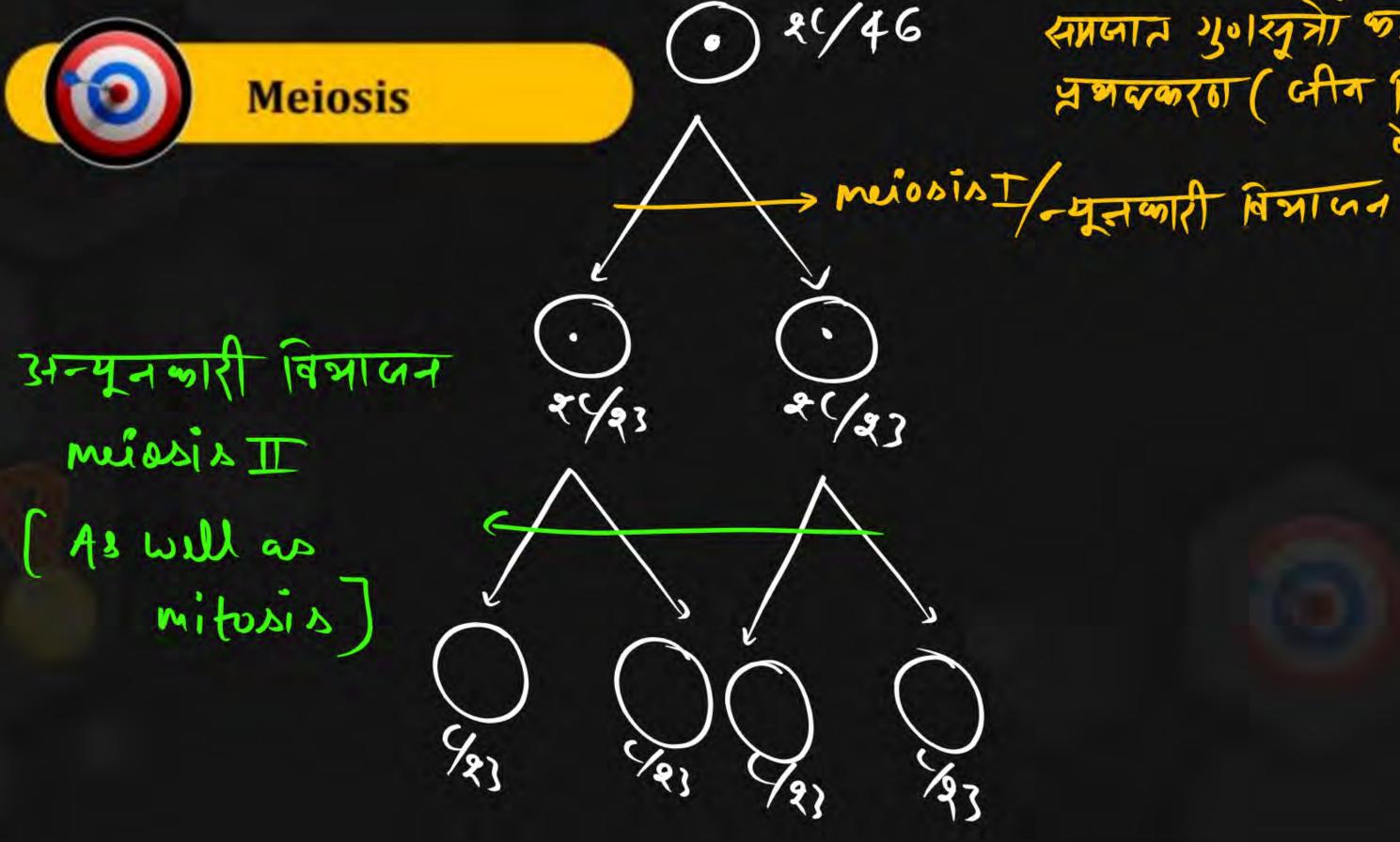
अवायोष



Significants of mitosis



- @ Nun Mair
- @ skin culls



समजात युगस्त्रो प्रभव्यकर्ग (जीम विनिष्ठ

40 md oyous Chromosome → समान लक्षणां की जीन समान स्मानां उपस्थित







Non
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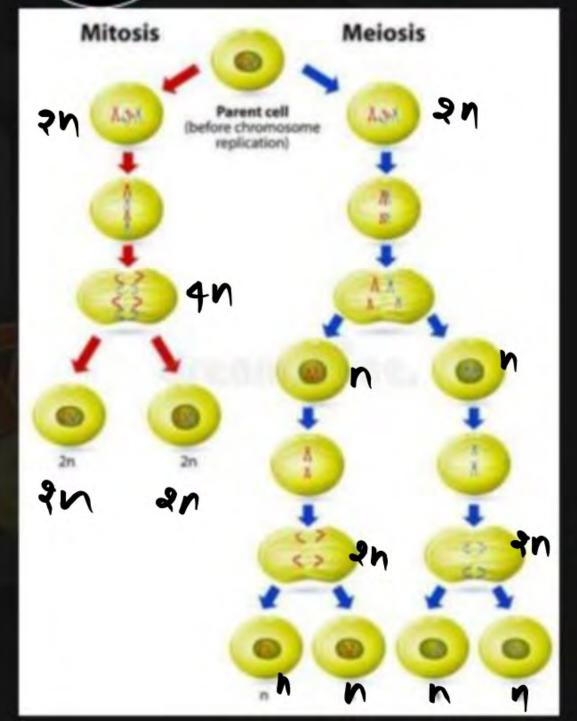
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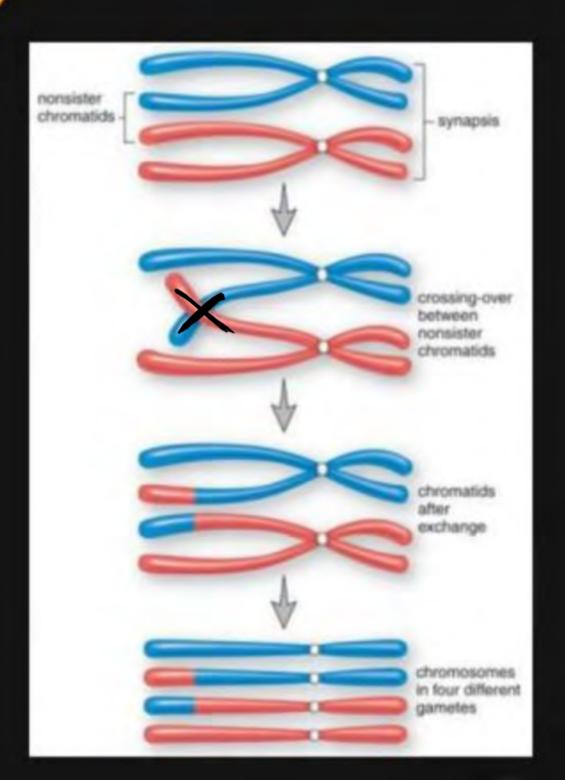
(hometide)

The second of th



Meiosis







MEIOSIS I (Karyokines)



Prophase I -> अवाधिक लंबी अवस्था गुश्युमों के त्मगहार के आधार पर 5 उपअवस्थांजी में विभाजित

केन्द्रक जिल्लिका का विघटन > प्रारंभन एकम (नपापन

Chromatin of citiza -> "

Leptotin zygotin pochyten Diplotene

viakinesis



Next Class Target



Topic

अर्धसूनी विभाजन

Topic

Topic

Topic



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