

## Competitive Exams: Cell Division Highlights in Biology

- Prophase = longest
- Anaphase = Shortest
- Kappa particle – Paramecium (acidobacter taeniospiralis)
- Sigma particle - Drosophila
- Leptotene - Bouquet stage, Attachment plaque, beaded structure
- Zygotene - Synapsis, zippering, Synaptonemal complex .chromonemeta (bivalent chromosome)
- Pachytine - crossing over, recombination nodule, long lasting
- Diplotene - terminalization, chromatin decondenses & RNA synthesis
- Diakinesis - Chromosome ends detach from nuclear membrane, chiasma formed.
- Diagenic – father -> daughter -> grandson
- Diacentric – mother -> son -> granddaughter
- Hologenic – Mother -> Daughter -> Grand Daughter
- Holoandric – father -> son -> grandson
- Metaxenia – effect of pollen on seed coat.
- Xenia – effect of pollen on endosperm
- Cell wall removed gm (positive) -> Protoplast
- Cell wall removed gm(negative) -> Spheroplast
- Chlorophyll Absorb red light – Carotene
- Phaeoplast Absorb green light – Fucoxanthin
- Rhodoplast Absorb blue light – phycoerythrin