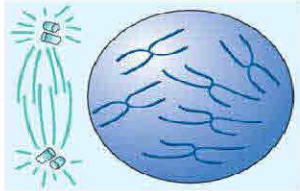

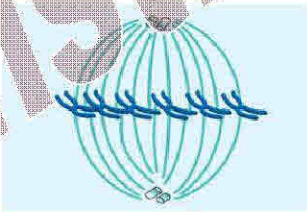


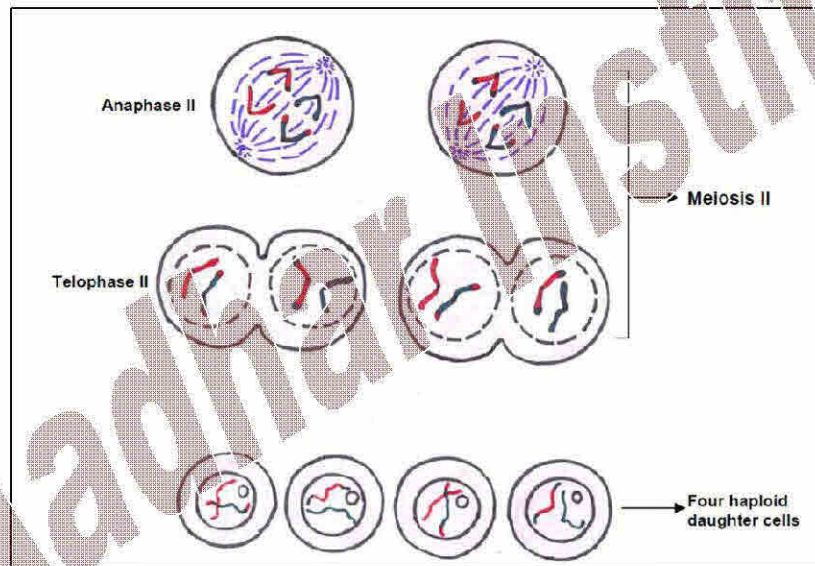
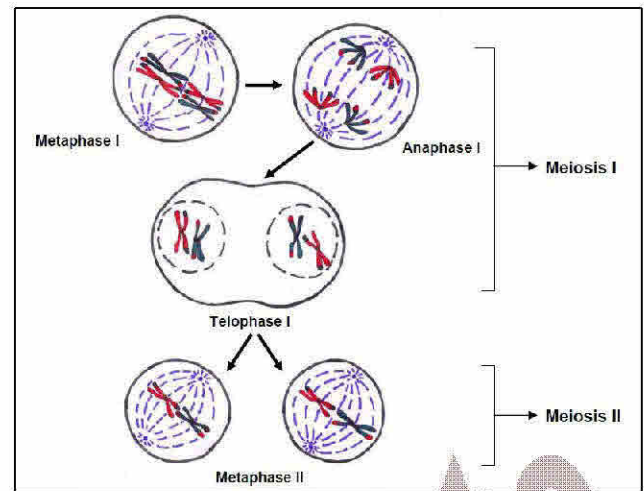
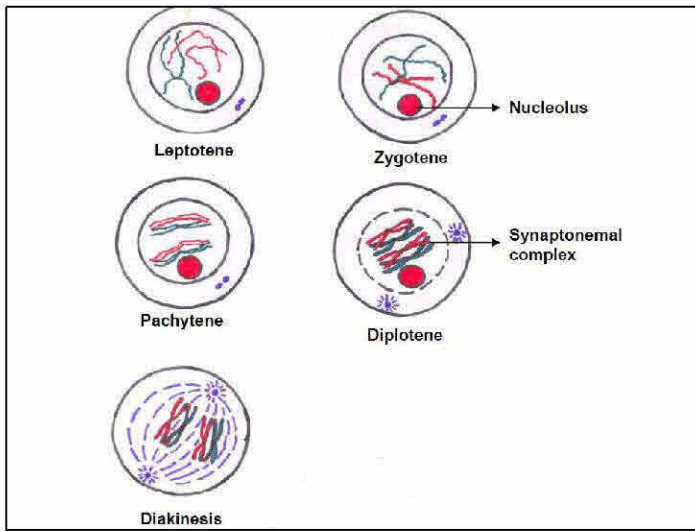


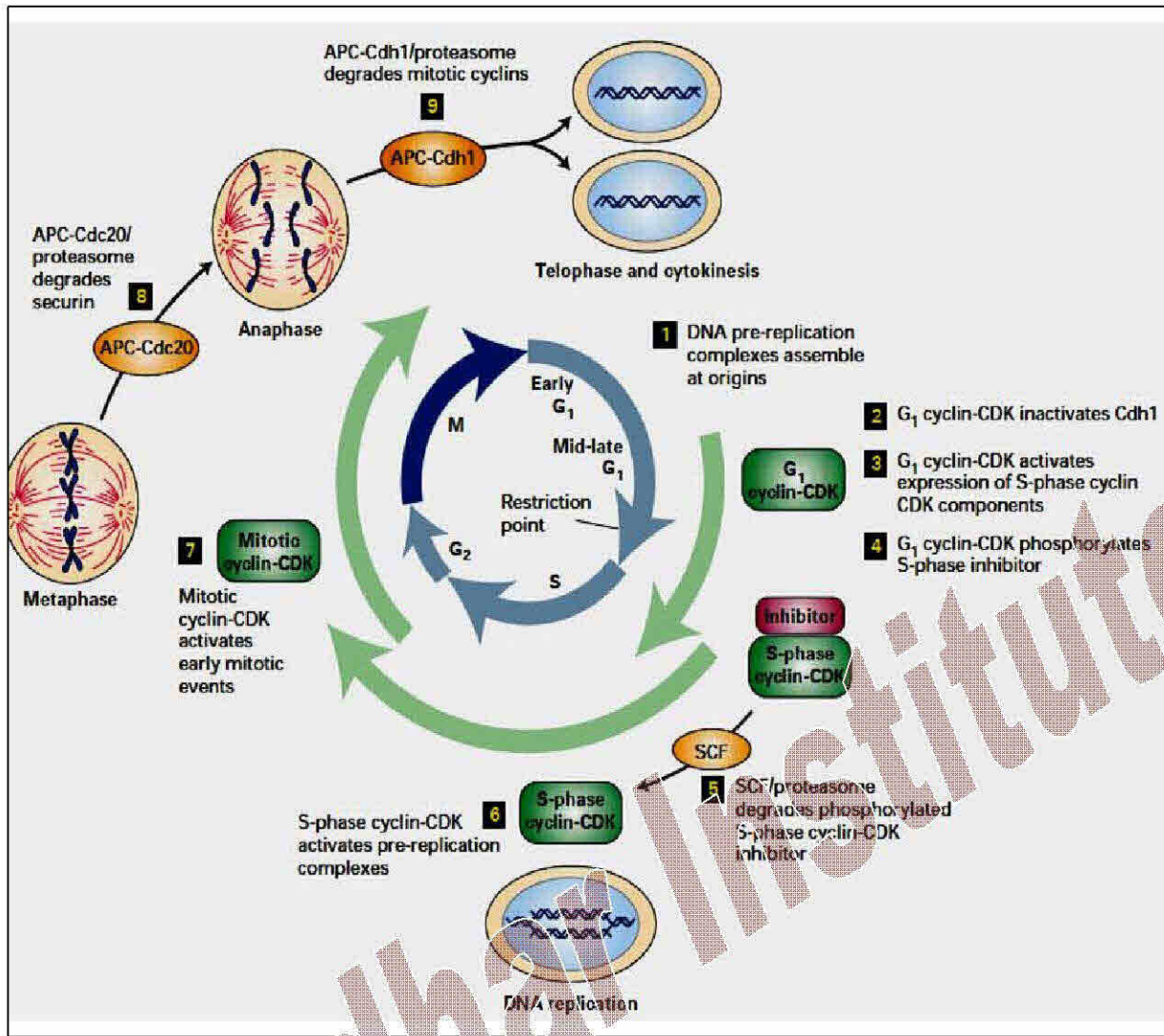
Features of the cell cycle	
Stage	Major Features
G ₀ phase	Stable, nondividing period of variable length.
Interphase:	
G ₁ phase	Growth and development of the cell; G ₁ /S checkpoint.
S phase	Synthesis of DNA.
G ₂ phase	Preparation for division; G ₂ /M checkpoint.
M phase	
Prophase	Chromosomes condense and mitotic spindle forms.
Prometaphase	Nuclear envelope disintegrates, and spindle microtubules anchor to kinetochores.
Metaphase	Chromosomes align on the spindle-assembly checkpoint.
Anaphase	Sister chromatids separate, becoming individual chromosomes that migrate toward spindle poles.
Telophase	Chromosomes arrive at spindle poles, the nuclear envelope re-forms, and the condensed chromosomes relax.
Cytokinesis	Cytoplasm divides; cell wall forms in plant cells.

Prophase	
<ol style="list-style-type: none"> 1. Chromosomal material condenses to form compact mitotic chromosomes. Chromosomes are seen to be composed of two chromatids attached together at the centromere. 2. Cytoskeleton is disassembled, and mitotic spindle is assembled. 3. Golgi complex and ER fragment. Nuclear envelope disperses. 	
Prometaphase	
<ol style="list-style-type: none"> 1. Chromosomal microtubules attach to kinetochores of chromosomes. 2. Chromosomes are moved to spindle equator. 	

Metaphase	
<ol style="list-style-type: none"> 1. Chromosomes are aligned along metaphase plate, attached by chromosomal microtubules to both poles. 	
Anaphase	
<ol style="list-style-type: none"> 1. Centromeres split, and chromatids separate. 2. Chromosomes move to opposite spindle poles. 3. Spindle poles move farther apart. 	

Telophase	
<ol style="list-style-type: none"> 1. Chromosomes cluster at opposite spindle poles. 2. Chromosomes become dispersed. 3. Nuclear envelope assembles around chromosome clusters. 4. Golgi complex and ER reforms. 5. Daughter cells formed by cytokinesis. 	





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