DPPP DAILY PRACTICE PROBLEMS								
	Class : XIth Date :			Subject : BIOLOGY DPP No. : 6				
Topic :- Cell Cycle and Cell Division								
1.	Which one of the following stages corresponds to Mendel's law of independent assortment?							
	a) Anaphase-II	b)Anaphase-I	c) Metaphase-I	d)Telophase-I				
2.	2. Which stages of mitosis is known for occurrence of cytokinesis?							
	a) Metaphase	b)Telophase	c) Anaphase	d)None of these				
3.	a) Two nuclear and two chromosome divisions b) Two nuclear and one chromosome division c) One nuclear and two chromosome divisions d)One nuclear and one chromosome division							
4.	-		arrange the steps of a	amitosis given below?				
	 I. The constriction appears in the cytoplasm II. The nucleus of cell elongates and develops a constriction round its middle III. The constriction in nucleus gradually deepens and finally cuts the nucleus into two daughter nuclei IV. The cytoplasmic constriction divides the parent cell into two daughter cells, each with nucleus Option containing correct sequence of events is a) I→III→IIV b) I→II→III→IV c) II→I→III→IV d) II→III→IV 							
5.	The number of mitot be a) 10	tic cell divisions require	ed to produce 256 cel	lls from single cell would d)8				
6.	-	bint in cell cycle occurs b) $G_1 - G_2$	-	d) $G_2 - M$				

- 7. The M-phase starts with the ...A..., corresponding to the separation of daughter chromosomes, known as ...B... and usually ends with division of cytoplasm which is known as ...C...
 Identify A-C to complete the given NCERT statement
 a) A-cell division; B-cytokinesis; C-karyokinesis
 b) A-nuclear division; B-karyokinesis; C-cytokinesis
 c) A-cell division; B-karyokinesis; C-cytokinesis
 d) A-nuclear division; B-cytokinesis; C-karyokinesis
 b) A-nuclear division; B-cytokinesis; C-cytokinesis
 d) A-nuclear division; B-cytokinesis; C-cytokinesis
 d) A-nuclear division; B-cytokinesis; C-karyokinesis
 d) A-nuclear division; B-cytokinesis; C-karyokines; C-karyokines; C-karyokines; C-karyokines; C-karyokines; C-karyokin
- 9. If the cell has 14 chromosomes at interphase. Than how many chromosomes will the cell have at G₁-phase of cell cycle?
 a) 28 b) 14 c) 7 d) 21
- 10. When parental and maternal chromosomes change their material with each other in cell division, this event is called
 a) Bivalent forming
 b) Crossing over
 c) Synapsis
 d) Dyad forming
- 11. Which of the following stage is responsible for the appearance of Lampbrush chromosomes? a) Meiotic prophase b) Mitotic prophase c) Mitotic anaphase d) Mitotic metaphase
- 12. The given figure is the repr<mark>esentation of a certain event at a particular stage of a type of cell division. Identify the stage and choose the correct option?</mark>



a) Prophase-I during meiosisc) Prophase during meiosis

- b) Prophase-II during meiosisd) Both prophase and metaphase of mitosis
- 13. Chiasmata are most appropriately observed in meiosis during
a) Diakinesisb) Diplotenec) Metaphase-IId) Pachytene
- 14. In which of the following stages, the chromosome is single thin and like long thread?a) Leptoteneb) Zygotenec) Pachytened) Diakinesis

15.	From the following, identify the two correct statements with reference to meiosis I. Bead like reference to meiosis						
	II. Displacement of chaismata occurs in diakinesic						
	III. Separation of two basic sets of chromosomes						
	IV. No division of centromere						
	The correct option is						
	a) II, III	b) II, IV	c) III, IV	d) I, III			
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16.	Which of the following stage of cell cycle is known as quiescent stage?						
	a) G ₁ -phase	b) S-phase	c) G ₀ -phase	d)G ₂ -phase			
17.	At which stage of mitosis, chromatids separated and passes to different poles? a) Prophase b) Metaphase c) Anaphase d) Telophase						
18.	When dividing cells are a) Interphase	e examined under a light b) S <mark>-phase</mark>	t microscope, chromosc c) Prophase	omes become visible in d) G ₁ -phase			
19.	Phenomenon of crossing over in diploid organisms is responsible for a) Linkages between genes b) Recombination between linked genes c) Segregation between genes d) Dominance of gene						
20.	In G ₁ -phase of cell cvcle	1-phase of cell cycle, what would be the change in DNA content of the cell?					
	a) DNA content increases to double b) DNA content gets reduced						
	c) Four fold increase of DNA content d) No change in DNA content						
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