

Class : Date : Subject : BIOLOGY DPP No. : 3

		Topic :- CELL C					
1.	In plant cells, cytokinesis o	curs by					
	A. Cell plate	B. Invagination		C. Furrowing	D. All of the above		
2.	Cytokinesis is A. Division of nucleus C. Division of cytoplasm		B. Divis D. Nor	sion of chromosomes			
3.	What is the proper sequence in mitosis? A. Metaphase, telophase, prophase and anaphase B. Prophase, metaphase, anaphase and telophase C. Anaphase, metaphase, telophase and prophase D. Telophase, anaphase, metaphase and prophase						
4.	Prophase-I is subdivided into five phases based on A. Chromosomal movement C. Chromosomal behaviour D. Chromosomal structure						
5.	Shape of chiasmata is A. C-shaped	B. X-shaped		C. Y-shaped	D. U-shaped		
6.	<ul> <li>The beginning of diplotene is recognised by the</li> <li>A. Dissolution of the synaptonemal complex</li> <li>B. Tendency of the recombined homologous chromosomes of the bivalents to separate from each other</li> <li>C. Meiotic spindle is assembled</li> <li>D. Both A and B</li> </ul>						
7.	The stages through which A. Cell division	a cell passes fror B. Cell cycle	m one d	ivision to the next is ca C. Karyokinesis	led D. Cytokinesis		
8.	Most of the organelle dupl A. M-phase	ication occurs d B. Interphase	uring	C. Interkinesis	D. Cytokinesis		



9. Recognise the figure and find out the correct matching.

		(c)						
	A. a–Early prophase, b–late prophase, c–transition to metaphase							
	B. b–Early prophase, c–late prophase, a–transition to metaphase							
	C. c–Early prophase, a–late prophase, b–transition to metaphase							
	D. b–Early prophase, a–late prophase, c–transition to metaphase							
10.	Non-sister chromatids excl	hange segments during						
	A. Leptotene	B. Diplotene	C. Zygotene	D. Pachytene				
11.	Recombination involves		0					
	A. Crossing over	B. Chromosome duplic	ation C. Spindle form	D. Cytokinesis				
12	Which is unique to mitosis	and does not occur in m						
12.	A Homologous chromosor	and does not occur in n						
	B. Homologous chromosor	nes nair and form hivale	int					
	C Homologous chromosor	nes behave independen	tly					
	C. Homologous chromosomes behave independently							
13.	Recombination between h	omologous chromosom	es is completed by the e	nd of				
	A. Pachytene	B. Leptotene	C. Diplotene	D. Zygotene				
14.	Crossing over takes place i	n						
	A. Prophase	B. Metaphase	C. Anaphase	D. Prophase I				
15.	Homologous chromosome	s separate during						
	A. Metaphase I	B. Anaphase l	C. Metaphase II	D. Anaphase II				
1.0								
16.	Microtubules from opposit	te poles of spindle get at	tached to kinetochores	of sister chromatids				
	during	P. Drophaco II	C Motophaco II	D. Motophaco I				
	A. Allaphase II	B. Propriase II	C. Metaphase II	D. Metaphase I				
17.	Exchange of segments bet	ween non-sister chroma	tids of homologous chro	mosomes is				
	A. Crossing over	B. Translocation	C. Linkage	D. Inversion				
	-		-					
18.	In meiosis, synapsis occurs	during						
	A. S-phase	B. Interphase	C. Leptotene	D. Prophase				



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- 19. Meiosis involves
  - A. Two nuclear divisions and one chromosomal division
  - B. One nuclear division and one chromosomal division
  - C. One nuclear division and two chromosomal divisions
  - D. Two nuclear divisions and two chromosomal divisions
- 20. In which stage of meiosis, the structure, number and shape of chromosomes can be observedA. Prophase IB. Metaphase IC. Anaphase ID. Telophase I

## ANSWER KEY

1. A	2. C	3. B	4. C	5. B	6. D	7. B	8. B	9. A	10. D
11. A	12. C	13. A	14. D	15. B	16. C	17. A	18. D	19. A	20. B

