

Class : XIth Date : Subject : BIOLOGY DPP No. : 2

## **Topic :- Cell Cycle and Cell Division**

1.	During mitosis, number of chromosomes gets a) Change b) No change c) May be change if cell is mature d) May be change if cell is immature I. Chromosomes cluster at opposite spindle poles their identity is lost as discrete elements II. Nuclear envelope assembles around the chromosome clusters III. Nucleolus, Golgi complex and ER reform Above features indicates which phase of mitosis					
	a) Anaphase	b) Telophase	c) Cytokinesis	d)S-phase		
3.	What would be the change in the chromosome number, during S-phase? a) No change b) The number of chromosome doubles c) The number of chromosome doubles only in case of diploid cell d) The number of chromosome doubles only in case of haploid cell					
4.	Arrange the following I. Terminalisation II. Crossing over III. Synapsis IV. Disjunction of geno a) IV, III, II and I	events of meiosis in a co mes b) III, II, I and IV	rrect sequence and choo c) II, I, IV and III	ose the correct option d) I, IV, III and II		
5.	What is the approximate percentage duration of cell cycle that comes under interpha					
	humans? a) 99%	b)95%	c) 25%	d)5%		
6.	Which of the following gametes? a) Metaphase-II	stage of meiosis is resp b) Anaphase-II	onsible for deciding gen c) Metaphase-I	etic constitution of d)Anaphase-I		

- 7. ...A... mitotic cell division is only seen in the diploid somatic cells, while the ...B... can show mitotic divisions in both haploid and diploid cells. Identify A and B form the options given below
  a) A-Animals; B-plants b) A-Plants; B-animals c) A-Bacterial; Bd) None of these viruses
- 8. Given diagram indicates which of the following phase of mitosis? Choose the correct option



	a) Interphase	b) Prophase	c) Metaphase	d)Anaphase	
9.	In meiosis, the chromosome number a) Reduces by half c) Increase by four times		b) Increase by twice d) Reduces by one-fourth		
10.	The phase between tw	called			
	a) S-phase	b) G <sub>1</sub> -phase	c) G <sub>2</sub> -phase	d)Interphase	
11.	At the end of meiosis-I a) Two	I, number of haploid cel b) Four	ls formed are c) Eight	d)None of these	
12.	The transition between a) Interkinesis	n meiosis-I and meiosis- b) Cytokinesis	II is c) Diakinesis	d)Karyokinesis	
13.	<ul> <li>3. Synapsis occurs between <ul> <li>a) A male and a female gamete</li> <li>b) <i>m</i>RNA and ribosomes</li> <li>c) Spindle fibres and centromere</li> <li>d) Two homologous chromosomes</li> </ul> </li> </ul>				
14.	<ul> <li>In which stage of cell division, chromosomes are most condensed?</li> <li>a) Prophase b) Metaphase c) Anaphase d) Telophase</li> </ul>			d)Telophase	
15.	Which of the protein is a) Tubulin	s found in spindle fibre? b) Albumin	c) Mucin	d)Haemoglobin	

16.	Which of the following a) DNA replication b) Growth and normal c) Mutation d) Fertilization	events occurs during G function of cell	<sub>1</sub> -phase?		
17.	I. Occurs between $G_1$ a II. DNA replication beg III. Centrioles duplicat	gins in the nucleus e in the cytoplasm number of chromosome	es also doubles	d) I, II and III	
18. A material, which arrests cell division, is obtained from					
	a) <i>Crocus</i>	b) <i>Colchicum</i>	c) Dalbergia	d)Chrysanthemum	
19.	During cell division, so event is called a) Interference	ometimes there will be fat b) Complementation	ailure of separation of si c) Non-disjunction	ster chromatids. This d)Coincidence	
20.	I. The cells that do not divide further, exit $G_1$ -phase to enter an inactive stage calledA phaseof the cell cycleII. The cells that are in $G_2$ -phase definitely continue with theB phase.Identify A and B to complete the given NCERT statementsa) A-G_0; B-Sb) A-S; B-G_0c) A-M; B-G_0d) A-G_0; B-M				