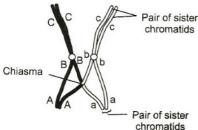


Class: XIth
Date:
Subject: BIOLOGY
DPP No.: 8

	_		-	e and Cell				
1.	The interphase is divided into three main phases. There phases are a) G ₁ -phase, M-phase and G ₂ -phase b) M-phase, S-phase and divisional phase c) Gap 1 phase, synthesis phase and gap 2 phase M-phase G ₂ -phase and divisional phase							
2.	In which of the follows a) Metaphase-I	ing stages (b) Anaph	-	cle chromosome i c) Prophase-I	number becomes half? d) Metaphase-II			
3.	What type of plant is f <i>Raphanobrassica</i> ? a) Triploid	ormed whe		es is used in the process in the process is used in the process is used in the process is u	ocess of development of oid d) Allotetraploid			
4.	The proteins involved are a) Actin	in the mov		romosomes towa c) Tubulin	rds the poles during cell division d) Elastin			
5.	Which of the following a) <i>Ophioglossum</i>	g specie's h b) Cat	aploid cell h	as maximum chro c) <i>Allium</i>	omosome counts? d) Dog			
6.	Which one of the following precedes re-formation of the nuclear envelope during M-phase of the cell cycle? a) Decondensation from chromosome and reassembly of the nuclear lamina b) Transcription from chromosomes and reassembly of the nuclear lamina c) Formation of the contractile ring and formation of the phragmoplast d) Formation of the contractile ring and transcription from chromosomes							
7.	Synaptonemal comple a) Pachytene	x is formed b) Zygote	_	c) Leptotene	d) Diplotene			

8. Identify the diagram and name the stage of meiosis correctly



a) Pachytene (crossing over)

b) Zygotene

c) Leptotene

d) Diplotene

- 9. G_0 -phase is
 - a) Phase after G₂-phase
 - b) Phase after M-phase, in which daughter cell enters new cell cycle
 - c) Arrest of cell cycle on the onset of differentiation
 - d) All of the above
- 10. During cell division, chromosome attaches with spindles
 - a) Kinetochore
 - b) Centrosome
 - c) Centriole
 - d) Secondary constriction



- 11. The spindle microtubules are polar, their orientation is
 - a) Positive (+) and negative (-) both ends towards the equator
 - b) Positive (+) ends towards the poles
 - c) negative (-) ends towards the poles
 - d) Positive (+) and negative (-) both ends towards the poles
- 12. The non-sister chromatids twist around and exchange segments with each other during
 - a) Diplotene
- b) Diakinesis
- c) Leptotene
- d) Pachytene

- 13. Two basic stages of cell cycle are
 - a) Interphase and M-phase/divisional phase
 - b) Karyokinesis and cytokinesis
 - c) Prophase, metaphase, anaphase and telophase
 - d) G₁,S and G₂ phases

14.	Which of the following statements are correct for G ₁ -phase? I. It is the last substage of interphase II. Cell organelles do not increase in number III. Both cell and nucleus grow in size IV. It synthesizes RNAs, proteins and other biochemical for cell growth and subsequent replication of DNA								
	Choose the correct option								
	a) I and II	b) II and IV	c) I and III	d) II and III					
15.	From the following identify the two correct statements with reference to meiosis I. Bead-like structures are absent on chromosomes. II. Displacement of chiasmata occurs in diakinesis. III. Separation of two basic sets of chromosomes. IV. No division of centromere. a) II,III b) II,IV c) III,IV d) I,III								
16.	The S-phase of cell cy a) Duplication of chr b) Shortening of chro c) Duplication of DN d) Duplication of cen	omoso <mark>me</mark> A	y						
17.	b) Pairing of homologc) Separation of pair	r chro <mark>matid</mark> s towards gous c <mark>hrom</mark> osomes							
18.	Find the correctly matched pairs and choose the correct option I. Leptotene – The chromosomes become invisible II. Zygotene – Pairing of homologous chromosomes III. Pachytene – Dissolution of the synaptonemal complex takes place IV. Diplotene – Bivalent chromosomes appear as tetrads V. Diakinesis – Terminalisation of chiasmata takes place a) I and II b) II and IV c) II and V d) II and III								
19.	The number of DNA strands in chromosome at G ₂ -stage is								
	a) One	b) Two	c) Four	d) Eight					
20.	Meiosis occurs in wha) Sperm cells	ich of the following ce b) Unicellular organisms	lls? c) Liver cells	d) All of these					