

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

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	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
2.	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
1.	Arrange the following events of meiosis in a correct sequence and choose the correct option I. Terminalisation II. Crossing over III. Synapsis IV. Disjunction of genomes a) IV, III, II and I b) III, II, I and IV c) II, I, IV and III d) I, IV, III and II
5.	What is the approximate percentage duration of cell cycle that comes under interphase in humans a) 99% b) 95% c) 25% d) 5%
õ.	Which of the following stage of meiosis is responsible for deciding genetic constitution of gametes a) Metaphase-II b) Anaphase-II c) Metaphase-I d) Anaphase-I
7.	A mitotic cell division is only seen in the diploid somatic cells, while theB 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; B-viruses d) None of these
3.	Given diagram indicates which of the following phase of mitosis? Choose the correct option



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	a) Interphase	b) Prophase	c) Metaphase	d) Anaphase		
9.	In meiosis, the chromoso a) Reduces by half c) Increase by four times		b) Increase by twice d) Reduces by one-fourt	h		
10.	The phase between two a) S-phase	successive M-phase is call b) G_1 -phase	ed c) G ₂ -phase	d) Interphase		
11.	At the end of meiosis-II, a) Two	number of h <mark>aploid cells fo</mark> b) Four	ormed are c) Eight	d) None of these		
12.	The transition between a) Interkinesis	meiosis- <mark>I and meiosis-II is</mark> b) Cytokinesis	c) Diakinesis	d) Karyokinesis		
13.	Synapsis occurs between a) A male and a female gamete b) mRNA and ribosomes c) Spindle fibres and centromere d) Two homologous chromosomes					
14.	In which stage of cell div a) Prophase	rision, chromosomes are n b) Metaphase	nost condensed? c) Anaphase	d) Telophase		
15.	Which of the protein is for a) Tubulin	ound in spindle fibre? b) Albumin	c) Mucin	d) Haemoglobin		
16.	Which of the following events occurs during G_1 -phase? a) DNA replication b) Growth and normal function of cell c) Mutation d) Fertilization					
17.	Select the correct statements regarding S-phase of interphase I. Occurs between G_1 and G_2 II. DNA replication begins in the nucleus III. Centrioles duplicate in the cytoplasm IV. As DNA is doubled, number of chromosomes also doubles The option with correct statements is a) IV and III b) I, II, III and IV c) II, III and IV d) I, II and III					
18.	A material, which arrest	s cell division, is obtained	from			



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- a) Crocus b) Colchicum c) Dalbergia d) Chrysanthemum
- 19. During cell division, sometimes there will be failure of separation of sister chromatids. This event is called
 - a) Interference
- b) Complementation
- c) Non-disjunction
- d) Coincidence
- 20. I. The cells that do not divide further, exit G_1 -phase to enter an inactive stage called ...A... phase of the cell cycle
 - II. The cells that are in G_2 -phase definitely continue with the ...B... phase. Identify A and B to complete the given NCERT statements
 - a) A-G₀; B-S
- b) A-S; B-G₀
- c) A-M; B-G₀
- d) A-G₀; B-M



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