## Chapter : Cell cycle & division Total Marks : 80 Marks

Bio tuition wala Std 11 : Biology Neet Series

Date:..... Time:1 Hour

Section A

•	Write the answer of the following questions. [E	ach carries 1 Mark]	[20]		
1.	Meiosis in diploid organisms results in				
	(A) Production of gametes	(B) Reduction in the	e number of chromosomes		
	(C) Introduction of variation	(D) all of the above			
2.	A bivalent of meiosis-I consists of				
	(A) Two chromatids and one centromere	(B) Two chromatids	and two centromere		
	(C) Four chromatids and two centromere	(D) Four chromatide	(D) Four chromatids and four centromere		
3.	Cells which are not dividing are likely to be	at			
	$(A) G_1 \qquad (B) G_2$	(C) G <sub>0</sub>	(D) S phase		
4.	Identify the wrong statement about meiosis  (A) Pairing of homologous chromosomes  (B) Four haploid cells are formed  (C) At the end of meiosis the number of chromosomes are reduced to half  (D) Two cycle of DNA replication occurs				
5.	Select the correct statement about G <sub>1</sub> phase.  (A) Cell is metabolically inactive  (B) DNA in the cell does not replicate  (C) It is not a phase of synthesis of macrom  (D) Cell stops growing				
6.	The stage of short duration between interphase and division is called				
	(A) $G_a$ (B) $G_B$	(C) G <sub>r</sub>	(D) G <sub>0</sub>		
7.	The time duration of cell cycle of is c	comparatively less / small			
	(A) Human (B) Yeast	(C) Dog	(D) Monkey		
8.	In phase of interphase, genetic materi	ial is doubled.			
	$(A) G_1 \qquad (B) G_2$	(C) S	(D) (A) and (B) both		
9.	Appearance of bivalent state of chromosome	es is a main characteristic	of phase		
	(A) Diplotene (B) Zygotene	(C) Pachytene	(D) Dikinesis		
10.	When is interphase seen?  (A) In the beginning of cell division  (C) Between two divisions	n is interphase seen ? n the beginning of cell division (B) At the end of division in daughter cell			
11.	The end time changes of prophase can be considered inverse changes of phase.  (A) Beginning of prophase (B) Metaphase (C) Telophase (D) Anaphase				
12.	It can be considered as an important event (A) Crossing over (B) Cytokinesis	for evolution. (C) Interphase	(D) Synapsis		
13.	Statement X: First prophase of meiosis is of Statement Y: There are 5 sub stages in first Statement Z: Prokaryotic cell divides only for the statement Z:	prophase.			

- (A) Statement X, Y correct, Z incorrect
- (C) Statement X, Z correct, Y incorrect
- (B) Statement X, Y incorrect, Z correct
- (D) Statement Y, Z correct, X incorrect

- 14. Identify the given stage
  - (A) Metaphase of mitosis
  - (B) Anaphase of mitosis
  - (C) Metaphase-1 of meiosis
  - (D) Anaphase-I of meiosis



- 15. A: Chromosomes are duplicated well before cell division begins.
  - R: In order ensure that daughter cells have identical genetical information about their structure and functioning.
  - (A) A and R both are correct and R is correct explanation of A.
  - (B) A and R are correct but R is not correct explanation of A.
  - (C) A is correct and R is false.
  - (D) Both A and R are false.
- 16. Match the following with respect to meiosis:

Column-I	Column-II	
(a) Zygotene	(i) Terminalization	
(b) Pachytene	(ii) Chiasmata	
(c) Diplotene	(iii) Crossing over	
(d) Diakinesis	(iv) Synapsis	



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Select the correct option from the following:

- (A) (a iv) (b iii) (c ii) (d i)
- (C) (a ii) (b iv) (c iii) (d i)

- (B) (a i) (b ii) (c iv) (d iii)
- (D) (a iii) (b iv) (c i) (d ii)
- 17. The correct sequence of phases of cell cycle is:
  - (A)  $G_1 \rightarrow S \rightarrow G_2 \rightarrow M$
  - (C)  $G_1 \rightarrow G_2 \rightarrow S \rightarrow M$

- (B)  $M \rightarrow G_1 \rightarrow G_2 \rightarrow S$
- (D)  $S \rightarrow G_1 \rightarrow G_2 \rightarrow M$

18. Match List-I with List-II:

List-I	List-II
(a) S phase	(i) Proteins are synthesized
(b) G <sub>2</sub> phase	(ii) Inactive phase
(c) Quiescent stage	(iii) Interval between mitosis and initiation of DNA replication
(d) G <sub>1</sub> phase	(iv) DNA replication

Choose the correct answer from the options given below.

- (a) (b) (c) (d)
- (A) (iv) (i) (ii) (iii)
- (B) (ii) (iv) (iii) (i)
- (C) (iii) (ii) (iv)
- (D) (iv) (ii) (iii) (i)

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- 19. Which stage of meiotic prophase shows terminalisation of chiasmata as its distinctive feature?
  - (A) Diakinesis
- (B) Pachytene
- (C) Leptotene
- (D) Zygotene
- 20. Some dividing cells exit the cell cycle and enter vegetative inactive stage. This is called quiescent stage  $(G_0)$ . This process occurs at the end of :
  - (A) G<sub>1</sub> phase
- (B) S phase
- (C) G<sub>2</sub> phase
- (D) M phase