Cell Cycle

Sr	Questions	Answers Choice
1	What causes the number of chromosomes to reduce to half when a cell divides by meiosis.	A. Seperation of homologous chromosomes during meiosis I B. Replication of DNA during interphase I C. Seperation of sister chromatids of all the chromosomes durng meiosis I D. Crossing over during meiosis I
2	In which phase of cel cycle, maximum growth occurs inc ell.	A. M Phase B. S Phase C. G2 Phase D. G1 Phase
3	Some student of SSC observed a thin cross section ffrom root tip of onion plant under the microscope. They found divising cells at different stages of their life cycle. One of the students found a cell at late prophase and counted 28 chromosomes in it. The number of chromosomes in daughter cells should be.	A. 14 B. 28 C. 56 D. 09
4	Why is meiosis II necessary after meiosis I?	A. To replicate chromosomes B. To separate sister chromatids C. To ensure genetic recombination D. To reduce chromosomes number
5	If you observe a cell in which nuclear memberane is reforming around two sets of chromosomes, what stage of cell cycle is this	A. Anaphase B. Telephase C. Metaphase D. Prophase
6	The longest phase of meiosis is.	A. Prophase I B. Prophae II C. Interphase I D. Interphase II
7	At which stage of mitosis chromosomes line up in the centre.	A. Prophase B. Anaphase C. Metaphase D. Telophase
8	Which one is the feature of mitosis but not of meiosis II?	A. Crossing over B. Separation of sister chromatids C. Daughter cells with same number of chromosomes D. Sepearation of homologous chromosomes
9	Chromosomal number of fruit fly is 8 The gametes of fruit fly contain.	A. 2 Chromosomes B. 4 Chromosomes C. 8 Chromosomes D. 16 Chromosomes
10	All of the following event takes place both in mitosis and meiosis except.	A. Condensation of chromatin to form chromosomes B. Formationof spinde apparatus C. Nuclear envelop and nucleolus disappear D. Chromosomes pair for crossing over
11	During celll division spindle fibres attach a chromosome at.	A. Telomere B. Centromere C. Upper arm of chromosomes D. Lower arm of chromosome
12	An organism has 4 pairs of chromosoems . Afger meiosis-I , how many chromosomes and chromatids will be present in each daughter cell.	A. 8 Chromosomes and 16 chromatids B. 4 chromosomes and 8 chromatids C. 4 chromosomes and 4 chromatids D. 8 chromosomes and 8 chromatids
13	The spindle apparatus of plants differs from that of animals innot having.	A. Microtubules B. Centromere C. Centrioles D. Equator of spindle
		A. S Phase

14	In which phase of cell cycle, the chromosomes duplicate.	B. G1 Phase C. Mitosis D. G2 Phase
15	Substance and energy required for replication for DNA is accumulated in cell during.	A. G1 B. G2 C. S-Phase D. M-Phase
16	Which event is unique to meiosis but not mitosis.	A. DNA Replication B. Crossing over C. Chromosomes alignment D. Nuclear division
17	Crossing over resuts in genetic recombination . It occurs between	A. Two chromatids of homologous chromosomes B. Two chromatids of opposite gametes C. Two chromatids of any two non homologous chromosomes D. Two chromatids of the same chromosome
18	How does the centrosome contribute to mitosis.	A. Initiates DNA replication B. Make mitotic spindle C. Forms the nuclear envelope D. Duplicates organelles
19	Centrosomes make mitotic spindle in.	A. Plant cells B. Animal Cells C. Prokaryotic cells D. All of these