

Cell Cycle

Sr	Questions	Answers Choice
1	All of the following event takes place both in mitosis and meiosis except.	A. Condensation of chromatin to form chromosomes B. Formation of spindle apparatus C. Nuclear envelope and nucleolus disappear D. Chromosomes pair for crossing over
2	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
3	What causes the number of chromosomes to reduce to half when a cell divides by meiosis.	A. Separation of homologous chromosomes during meiosis I B. Replication of DNA during interphase I C. Separation of sister chromatids of all the chromosomes during meiosis I D. Crossing over during meiosis I
4	The longest phase of meiosis is.	A. Prophase I B. Prophase II C. Interphase I D. Interphase II
5	Crossing over results 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
6	The spindle apparatus of plants differs from that of animals in not having.	A. Microtubules B. Centromere C. Centrioles D. Equator of spindle
7	Some student of SSC observed a thin cross section from root tip of onion plant under the microscope. They found dividing 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
8	During cell division spindle fibres attach a chromosome at.	A. Telomere B. Centromere C. Upper arm of chromosomes D. Lower arm of chromosome
9	Substance and energy required for replication for DNA is accumulated in cell during.	A. G1 B. G2 C. S-Phase D. M-Phase
10	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
11	Which event is unique to meiosis but not mitosis.	A. DNA Replication B. Crossing over C. Chromosomes alignment D. Nuclear division
12	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. Separation of homologous chromosomes