

# BIOLOGY

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(Chapter – 10)(Cell Cycle and Cell Division)

(Class – XI)

## Question 8:

How does cytokinesis in plant cells differ from that in animal cells?

### Answer 8:

Cytokinesis in plant cells		Cytokinesis in animal cells	
(i)	The division of the cytoplasm takes place by cell plate formation.	(i)	The division of the cytoplasm takes place by cleavage.
(ii)	Cell plate formation starts at the centre of the cell and grows outward, toward the lateral walls.	(ii)	Cleavage starts at the periphery and then moves inward, dividing the cell into two parts.

## Question 9:

Find examples where the four daughter cells from meiosis are equal in size and where they are found unequal in size.

### Answer 9:

(a) Spermatogenesis or the formation of sperms in human beings occurs by the process of meiosis. It results in the formation of four equal-sized daughter cells.

(b) Oogenesis or the formation of ovum in human beings occurs by the process of meiosis. It results in the formation of four daughter cells which are unequal in size.

## Question 10:

Distinguish anaphase of mitosis from anaphase I of meiosis.

### Answer 10:

#### Anaphase of mitosis

Anaphase is the stage during which the centromere splits and the chromatids separate. The chromosomes move apart, toward the opposite poles. These chromosomes are genetically identical.



Anaphase

#### Anaphase I of meiosis

During anaphase I, the homologous chromosomes separate, while the chromatids remain attached at their centromeres.

Hence, in anaphase I, the chromosomes of each bivalent pair separate, while the sister chromatids remain together.



Anaphase

## Question 11:

List the main differences between mitosis and meiosis.

### Answer 11:

Mitosis		Meiosis	
1.	In mitotic division, a single division results in two daughter cells.	1.	Meiotic division involves two successive divisions – meiosis I and meiosis II. These divisions result in four daughter cells.
2.	Mitosis is known as equational division. This is because the daughter cells have the same	2.	Meiosis I is known as reductional division. This is because the chromosome number is reduced to half.

# Biology Chapter 10

**Holt Rinehart & Winston**



## **Biology Chapter 10:**

Holt Biology Chapter 10 Resource File: Cell Growth and Division Holt Rinehart & Winston, 2008-01-01 **MCAT**

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