

## **Biology Chapter 6: Cell Division (Answers)**

### **1) Distinguish cytokinesis from karyokinesis.**

<b>Cytokinesis</b>	<b>Karyokinesis</b>
Cytokinesis is the biological process involving the division of a cell's cytoplasm during mitosis or meiosis.	Karyokinesis is the biological process involving the division of a cell's nucleus during mitosis or meiosis.

### **2) Describe the events taking place during interphase.**

Interphase involves a series of changes during which DNA synthesis occur. In this phase, the amount of DNA (per cell) experiences growth and DNA replication in an orderly manner. Interphase is divided into three phases:

#### **i) G1 phase:**

It is the stage during which the cell grows and prepares its DNA for replication. In this phase, the cell is metabolically active.

#### **ii) S phase:**

It is the stage during which DNA synthesis occurs. In this phase, the amount of DNA (per cell) doubles, but the chromosome number remains the same.

#### **iii) G2 phase:**

In this phase, the cell continues to grow and prepares itself for division. The proteins and RNA required for mitosis are synthesised during this stage.

### **3) Why is mitosis called equational division?**

Mitosis is the process of cell division wherein the chromosomes replicate and get equally distributed into two daughter cells. The chromosome number in each daughter cell is equal to that in the parent cell i.e diploid. Hence, mitosis is known as equational division.

### **4) Name the stage of cell cycle at which one of the following events occur:**

- i. Chromosomes are moved to spindle equator = Metaphase
- ii. Centromere splits and chromatids separate = Anaphase
- iii. Pairing between homologous chromosomes takes place = Prophase I
- iv. Crossing over between homologous chromosomes takes place = Prophase I

# Nature Of Biology Chapter 6 Answers

**M Walker**



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