



**THE BOARD OF SECOND YEAR**  
UNIVERSITY OF KARNATAKA



**Very Short Answer Questions** (Total marks 10) (Total time 15 minutes)

Answer the following questions in brief and to the point.

**Q.1**

1. The first step in the process of the formation of a new cell is mitosis.  
Mitosis is a process of cell division in which a single cell divides into two daughter cells. It is a type of asexual reproduction. The cell first replicates its DNA and then divides into two equal parts. This process is essential for growth and repair of the body. It is a type of cell division that results in two daughter cells that are genetically identical to the parent cell. The process of mitosis is controlled by a set of genes called the cell cycle clock. The cell cycle clock is a series of events that control the timing of cell division. The cell cycle clock is a complex system of proteins and enzymes that work together to regulate the cell cycle. The cell cycle clock is a highly regulated process that ensures that cells divide at the right time and in the right place. The cell cycle clock is a key component of the cell cycle and is essential for the proper functioning of the cell.

2. The second step in the process of the formation of a new cell is meiosis.  
Meiosis is a type of cell division that results in four daughter cells that are genetically diverse. It is a type of sexual reproduction. The cell first replicates its DNA and then divides into two equal parts. This process is essential for the production of gametes. Meiosis is a complex process that involves two rounds of cell division. The first round of division is called meiosis I and the second round is called meiosis II. Meiosis I is a reductional division that results in two daughter cells that are genetically diverse. Meiosis II is an equational division that results in four daughter cells that are genetically diverse. Meiosis is a highly regulated process that ensures that gametes are produced at the right time and in the right place. Meiosis is a key component of the cell cycle and is essential for the proper functioning of the cell.

Write the answer in brief and to the point.

Mitosis

Meiosis

Cell cycle

Genetic diversity

Sexual reproduction

Asexual reproduction









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