

HSC — BIOLOGY 1ST PAPER — CHAPTER TWO — CELL DIVISION

"The process by which new cells are formed from the pre-existing cells is called *cell division*".

(Walter Flemming, 1882)

Body of multicellular organism constitutes 2 types of cell:-

1. Somatic cells; takes part in growth and development.
2. Germ cells; take part in sexual reproduction of organisms.

Amitosis	Mitosis	Meiosis
Amitosis is a mode of Division in which nucleus elongates, constricts, in the middle and divides directly into two daughter nuclei. [Gr. <i>a</i>=no, <i>mitosis</i>=thread, <i>osis</i>=state]	Mitosis is a process of cell division takes place in the nucleus of a dividing cell, involves typically a series of steps resulting in the formation of two new daughter nuclei and finally dividing the cytoplasm of mother cell into two daughter cells which are identical to each other and also to the original mother cell in every respect.	The specialized cell division in which nucleus of reproductive parent cell divides twice while the chromosomes divide once resulting four daughter cells or gametes and in which the diploid number of chromosomes of parent cell is reduced to haploid in the daughter cells is called as meiosis cell division.
Characteristics		
1. Simple cell division method. 2. Nucleus divides to form two daughter cells. 3. Daughter cells are genetically non-identical. 4. Intact nuclear envelope is found. 5. Chromatin does not condense into definite chromosomes. 6. No spindles are involved. 7. Chromatin distribution occurs unequally which causes abnormalities in metabolism and reproduction. 8. Cytokinesis may or may not follow karyokinesis. 9. Follows centripetal constriction of cytoplasm to form two daughter cells. 10. Amitosis occurs in yeast cells, amoeba, meganucleus of paramecium, nuclei of internodal cells of <i>Chara</i>, endosperm cells of seeds, cartilage cells and diseased cells.	1. 2 daughter cells with similar characters (identical qualitatively and quantitatively) and chromosome number like mother cell is produced. 2. Equal genetic material division. 3. Complex cell division method. 4. Take place in haploid and diploid cells. 5. Each chromosome divides longitudinally to form two chromatids. 6. Original structure of the chromosomes remains unchanged in both the daughter nuclei. 7. Nucleus and cytoplasm divide one time. 8. Occurs in vegetative or, somatic cells. 9. No crossing over. 10. No genetic variation. 11. Helps in physical growth. 12. Held in all most all embryonic cells of plant or animal until it reaches full size, divisible somatic cells of multicellular organisms, reproductive organs of plants and animals and in plant meristematic tissues, apical meristems of roots and	1. Occurs in reproductive mother cells of diploid plants and zygotes of haploid plants. 2. Nucleus divides twice. 3. Chromosomes divide once. 4. Daughter cells have half number of chromosomes. 5. 4 haploid (n) daughter cells are produced from 1 diploid ($2n$) mother cell. 6. Homologous chromosomes pairing takes place to form bivalents/tetrads where crossing over happens. 7. Cells produced in meiosis having unique characteristics of each. 8. Plays significant role in the evolution. 9. Crossing over takes place between the non-sister chromatids. 10. First division is reductional and the second one is equational. 11. Genetic variation occurs. 12. Cytokinesis may be successive/simultaneous. 13. Long lasting process.

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Table of Contents Hsc 2014 Biology 1st Paper Objective Solution

1. Understanding the eBook Hsc 2014 Biology 1st Paper Objective Solution
 - The Rise of Digital Reading Hsc 2014 Biology 1st Paper Objective Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2014 Biology 1st Paper Objective Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc 2014 Biology 1st Paper Objective Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2014 Biology 1st Paper Objective Solution
 - Personalized Recommendations

- Hsc 2014 Biology 1st Paper Objective Solution User Reviews and Ratings
- Hsc 2014 Biology 1st Paper Objective Solution and Bestseller Lists
- 5. Accessing Hsc 2014 Biology 1st Paper Objective Solution Free and Paid eBooks
 - Hsc 2014 Biology 1st Paper Objective Solution Public Domain eBooks
 - Hsc 2014 Biology 1st Paper Objective Solution eBook Subscription Services
 - Hsc 2014 Biology 1st Paper Objective Solution Budget-Friendly Options
- 6. Navigating Hsc 2014 Biology 1st Paper Objective Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2014 Biology 1st Paper Objective Solution Compatibility with Devices
 - Hsc 2014 Biology 1st Paper Objective Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2014 Biology 1st Paper Objective Solution
 - Highlighting and Note-Taking Hsc 2014 Biology 1st Paper Objective Solution
 - Interactive Elements Hsc 2014 Biology 1st Paper Objective Solution
- 8. Staying Engaged with Hsc 2014 Biology 1st Paper Objective Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc 2014 Biology 1st Paper Objective Solution
- 9. Balancing eBooks and Physical Books Hsc 2014 Biology 1st Paper Objective Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2014 Biology 1st Paper Objective Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc 2014 Biology 1st Paper Objective Solution
 - Setting Reading Goals Hsc 2014 Biology 1st Paper Objective Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc 2014 Biology 1st Paper Objective Solution
 - Fact-Checking eBook Content of Hsc 2014 Biology 1st Paper Objective Solution

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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