

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 (<i>n</i>) daughter cells are produced from 1 diploid (<i>2n</i>) 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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