



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: LIFE SCIENCE

Class: VIII Date: 15.06.2020

Pamphlet (Difference between mitosis and meiosis) FM: 15

WORKSHEET – 37(ANSWERS)

(1x15=15)

- i) Mitosis occurs in-
- (1) **Somatic cells** (2) Gametes (3) Reproductive cells (4) None of these
- ii) The number of times nucleus divides in meiosis
- (1) Once **(2) Twice** (3) Thrice (4) Four times
- iii) The type of division that occurs in germ cells is-
- (1) Mitosis **(2) Meiosis** (3) Mitosis and meiosis (4) Amitosis
- iv) The number of daughter cells formed in meiosis is
- (1) 1 (2) 2 (3) 3 **(4) 4**
- v) When the number of chromosomes reduces to half than the parent cell, it is referred to as
- (1) Diploid **(2) Haploid** (3) Triploid (4) Tetraploid
- vi) The daughter cells become haploid in-
- (1) Amitosis (2) Mitosis **(3) Meiosis** (4) All of these
- vii) In meiosis I, there are 5 sub-phases present in
- (1) **Prophase** (2) Metaphase (3) Anaphase (4) Telophase
- viii) The chromosome doubles at the beginning of each cell division in
- (1) **Mitosis** (2) Amitosis (3) Meiosis (4) All of these
- ix) The phenomenon by which genetic material is exchanged between homologous chromosomes is-
- (1) **Crossing over** (2) Chiasmata (3) Synapsis (4) All of these
- x) Crossing over occurs in-
- (1) Mitosis (2) Amitosis **(3) Meiosis** (4) None of these
- xi) In meiosis, the chromosome number is doubled after
- (1) **Meiosis I** (2) Meiosis II (3) Both (1) and (2) (4) None of these
- xii) Mitosis is called _____ cell division
- (1) Equational (2) Reductional (3) Homologous (4) Analogous
- xiii) Meiosis is called _____ cell division
- (1) Equational (2) Transitional **(3) Reductional** (4) Homologous
- xiv) The number of daughter cells formed after mitosis is
- (1) 1 **(2) 2** (3) 3 (4) 4
- xv) Which of the following divisions occurs in the cells of the kidney?
- (1) Amitosis **(2) Mitosis** (3) Meiosis (4) All of these
