



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 11.05.2020

CHAPTER: CONTINUITY OF LIFE

TOPIC: MITOSIS (PART2)

WORKSHEET 24

Choose the correct option:

(1X15=15)

- The number of daughter nucleus/nuclei produced at the Telophase stage of mitosis of a cell is
a. One b. Two c. Four d. Both b & c
- In which of the following phase does the chromatids assume special shapes to move apart?
a. Metaphase b. Telophase c. Anaphase d. Prophase
- Till which of the following phase of mitosis, the centromere doesn't divide?
a. Metaphase b. Telophase c. Anaphase d. Prophase
- Equatorial plane contains well aligned chromosomes in
a. Metaphase b. Telophase c. Anaphase d. Prophase
- During Anaphase the sister chromatids may not separate properly to move to the poles if the chromosome is connected to
a. One kinetochore b. Two kinetochores c. Defunct kinetochore d. Both a&c
- How many mitotic divisions will a cell undergo to produce 256 cells?
a. 8 b. 16 c. 27 d. 36
- If one is provided with onion root tip to study the chromosome number of the species, he will focus on
a. Telophase b. Metaphase c. Both a&b d. None of these
- Chromosomes show auto-orientation in
a. Metaphase b. Telophase c. Anaphase d. Prophase
- Movement of chromosomes to the poles is possible due to
a. Shortening of Interzonal fibres b. Elongation of Interzonal fibres c. Both a&b d. None of these
- The chromosomes that assume an 'L' shape during anaphase are called
a. Metacentric b. Sub-metacentric c. Telocentric d. Acrocentric
- When the chromosomes split at the centromere & separate, they are called
a. Daughter chromosomes b. Sister Chromatids c. Both a&b d. None of these
- Decondensation of chromosomes occurs at
a. Metaphase b. Telophase c. Anaphase d. late metaphase
- If a mother cell is $2n=4$, then how many daughter chromosomes start moving towards each of the poles?
a. 2 b. 8 c. 4 d. 6
- In which of the following stage does Kinetochore microtubules disappear?
a. Anaphase b. Telophase c. Both a&b d. None of these
- Which of the following happens in metaphase?
a. Congression b. Maximum condensation of chromosomes c. Both a&b d. None of these

-Debjani Chakraborty