



# 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 SOLUTION 24

Choose the correct option:

(1X15=15)

- The number of daughter nucleus/nuclei produced at the Telophase stage of mitosis of a cell is  
**b. Two**
- In which of the following phase does the chromatids assume special shapes to move apart?  
**c. Anaphase**
- Till which of the following phase of mitosis, the centromere doesn't divide?  
**a. Metaphase**
- Equatorial plane contains well aligned chromosomes in  
**a. Metaphase**
- During Anaphase the sister chromatids may not separate properly to move to the poles if the chromosome is connected to  
**d. Both a&c**
- How many mitotic divisions will a cell undergo to produce 256 cells?  
**a. 8**
- If one is provided with onion root tip to study the chromosome number of the species, he will focus on  
**b. Metaphase**
- Chromosomes show auto-orientation in  
**a. Metaphase**
- Movement of chromosomes to the poles is possible due to  
**b. Elongation of Interzonal fibres**
- The chromosomes that assume an 'L' shape during anaphase are called  
**b. Sub-metacentric**
- When the chromosomes split at the centromere & separate, they are called  
**a. Daughter chromosomes**
- Decondensation of chromosomes occurs at  
**b. Telophase**
- If a mother cell is  $2n=4$ , then how many daughter chromosomes start moving towards each of the poles?  
**c. 4**
- In which of the following stage does Kinetochore microtubules disappear?  
**b. Telophase**
- Which of the following happens in metaphase?  
**c. Both a&b**

-Debjani Chakraborty