



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 25.04.2020

CHAPTER: CONTINUITY OF LIFE

**TOPIC: CHROMOSOME NUMBER, STRUCTURE
& COMPOSITION OF CHROMOSOME**

WORKSHEET 17

Choose the correct option:

(1X15=15)

1. The polarity of DNA molecule is obtained by the numbering of the
a. Phosphate b. Nitrogenous base c. Sugar d. Both a & c
2. Which of the following is the diploid number of chromosome for dog?
a. 46 b. 78 c. 44 d. 39
3. How many set(s) of chromosome are inherited by human beings from each of the parents?
a. one b. two c. one pair d. two pairs
4. Only the sex cells have haploid numbers due to the process called
a. Mitosis b. Meiosis c. Amitosis d. Equational division
5. The thin filaments of chromosomes during the mitotic prophase is called
a. Chromonema b. Chromonemata c. Both a & b d. None of these
6. The bead like accumulations along the length of the chromosome during Interphase of cell cycle is
a. Chromonema b. Chromomere c. Centromere d. Both a & b
7. The overall charge of DNA molecule is
a. Positive b. Negative c. Neutral d. None of these
8. How many protein subunits make up the Histone core protein?
a. 7 b. 4 c. 9 d. 8
9. Which of the following terms are related to the Histone proteins?
a. Basic amino acid b. Positively charged c. Acidic amino acid d. Both a & b
10. Nucleosomes are composed of
a. Histone protein b. DNA c. RNA d. Both a & b
11. The constriction point of each chromosome is called
a. Chromonema b. Chromomere c. Centromere d. Both a & b
12. The location of centromere in chromosome is important for
a. locating specific genes b. shape of chromosome c. Both a & b d. None of these
13. Chromatin is composed of
a. DNA b. RNA c. Protein d. All of these
14. The RNA content of chromatin is
a. 30-40% b. 50-60% c. 0.5-10% d. 0.5-1%
15. Which of the following terms are related to the sugar of DNA?
a. Pentose b. 5-carbon c. 6-carbon d. Both a & b

-Debjani Chakraborty