ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Biological Sciences **Class: XI** **Date: 16.11 .2020**

Cell division: Meiosis **F.M:15**

WORKSHEET – 51 **(1x15=15)**

i) When the chromosomes move to the opposite poles , the chromosomal fibres -

(1) **Contract** (2) Elongate (3) Relax (4) Extend

ii) At anaphase I

(1) **Homologous chromosomes separate** (2) Centromere divides (3) Chromatids separate (4) All of these

iii) The actual reduction of chromosomes occur at

(1) Metaphase I **(2) Anaphase I** (3) Telophase I (4) Prophase I

iv) The astral rays and spindle fibres at Telophase

(1) Polymerise **(2) De-polymerise** (3) Dehydrate (4) None of these

v) Which of the following is not formed at Telophase I?

(1) ER (2) Nucleolus **(3)Nucleus** (4) Nuclear membrane

vi) Phragmoplast granules are formed by aggregation of

(1) ER **(2) Golgi** (3) Vacuoles (4) Mitochondria

vii) During cytokinesis in animal cells , the constriction deepen from-

(1) **Periphery to the centre** (2) Centre to periphery (3) Both (1) and (2) (4) Any part of the cell

viii) The second mitotic division is

(1) Homotypic (2) Equational division **(3) Both (1) and (2)** (4) Heterotypic

ix) The centromere at meiosis divides at

(1) Metaphase I (2) Metaphase II (3) Anaphase I **(4) Anaphase II**

x) The daughter chromosomes in Anaphase II are in the form of

(1) Tetrad (2) Dyad **(3) Monads** (4) None of these

xi) Nucleus at Telophase II reappears due to -

(1) Synthesis of rRNA (2) Accumulation of ribosomal protein **(3) Both (1) and (2)** (4) None of these

xii) The number of nuclei after Telophase II is -

(1) 1 (2) 2 (3) 3 **(4) 4**

xiii) The number of cells after Telophase II and before Cytokinesis II (successive type) is-

(1) 1 **(2) 2** (3) 3 (4) 4

xiv) Problems in disjunction leads to

(1) Aneuploidy (2) Polyploidy (3) Chromosomal abberration **(4) All of these**

xv) When exchange of chromosomal segment takes place between non-homologous chromosomes, it is-

(1) Crossing over (2) Replication **(3) Translocation** (4) Transcription

****

Manjaree Guha