



(1x15=15)

# ST. LAWRENCE HIGH SCHOOL

## A JESUIT CHRISTIAN MINORITY INSTITUTION

## **SOLUTION - 8**

Sub: Life Science Date: 09.07.2021

### Topic: Ch 2 Continuity of Life: Meiosis F.M. : 15

#### Choose the correct option:

Class: X

1.	Meiosis produces sex cells or gametes from cells.
	a) haploid, haploid b) diploid, diploid <b>c) haploid, diploid</b> d) diploid, haploid
2.	The cells undergoing meiosis are called
	a) meiocytes b) cancer cells c) germ cells d) somatic cells
3.	The site of meiosis in plants are -
	a) microsporocytes b) megaspororcytes c) a and b d) none of these
4.	The end product of a meiosis are haploid daughter cells
	a) two <b>b) four</b> c) six d) eight
5.	The process of pairing of chromosomes is known as synapsis.
	a) non-homologous b) partially homologous c) homologous d) none of these
6.	Sister chromatids are two of a chromatid.
	a) different sets b) variable sets c) constants sets d) identical copies
7.	What are the characteristics of homologous chromosome pairs?
	a) Same length and staining pattern b) Same centromere position and characteristics of genes
	at particular loci <b>c) a and b</b> d) none of these
8.	A tetrad is made up of chromatids.
	a) one b) two c) three <b>d) four</b>
9.	Crossing over occurs during of meiosis I.
	a) prophase I b) metaphase I c) anaphase I d) telophase I
10.	Crossing over occurs between chromatids of homologous chromosomes.
	a) sister <b>b) non-sister</b> c) both of these d) none of these
11.	What are the significances of meiosis?
	a) Causes alternation of generation b) Constancy in chromosome number c) Genetic variation
	within the species d) All of these
12.	is a necessary part in the life cycle of sexually reproducing animals as it forms gametes.
	a) Mitosis b) Amitosis c) Meiosis d) None of these
13.	The nature of chromosomal division in meiosis is -
	a) reductional b) daughter cells receive half number of chromosomes than their mother cells
	c) diploid mother cells produce haploid daughter cells <b>d) all of these</b>

- 14. How does meiosis perform genetic variation within species?
  - a) Breakage and exchange of chromatids between male and female parents b) Mixing of chromatids between male and female parents c) Both of these d) None of these
- 15. What is the longest phase in meiosis?
  - a) Metaphase I b) Anaphase II c) Prophase I d) telophase II

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