

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION WORK SHEET – 21

Class: XII Sub: Biological Science Date: 24.06.2020

Topic: Chapter 5 (Part 10) Mutation and chromosomal disorders

F.M.: 15

Choose the correct option:

(1x15=15)

- 1. Loss or gain of one or more chromosomes in a genome includes :
 - a) Hypoploidy b) Hyperploidy c) Euploidy d) Both (a) and (b)
- 2. The addition of one chromosome to the genome is called :
 - a) Nullisomy b) Trisomy c) Monosomy d) All of these
- 3. The chromosome number in case of monosomy is represented as :- a)2n+1 b) 2n+2 c) 2n-1 d) 2n-2
- 4. Down syndrome occurs due to the following type of mutation:
 - a) Monosomy b) Trisomy c) Tetrasomy d) Nullisomy
- 5. Trisomy takes place in the chromosome number _____ in Down's syndrome.
 - a) 21 b) 19 c) 17 d) 15
- 6. The characteristic feature of a child suffering with Down's Syndrome includes :
 - a) Epicanthic folds b) Protruding tongue c) Mental retardation d) All of these
- 7. The following is not an example of disease related to sex chromosome :
 - a) Klinefelter syndrome b) Turner's syndrome c) Haemophilia d) Down's Syndrome
- 8. The genotype of the person suffering with Turner Syndrome is :
 - a) 44+XY b) 44+XX c) 44+XO d) 44+XXX
- 9. A female suffering with Turner syndrome has the following characteristic :
 - a) Streaked gonads b) Webbed neck c) Underdeveloped Breast and uterus d) All of these
- 10. Turner syndrome is caused due to :
 - a) Nullisomy b) Monosomy c) Trisomy d) Tetrasomy
- 11. Turner syndrome and Klinefelter syndrome is due to :
 - a) Non-dysjunction of X-chromosome b) Zero crossing over c) Failure of cytokinesis
 - d) All of these
- 12. Klinefelter syndrome males have the following genotype :
 - a) 44+XO b) 44+XY c) 44+XXY d) None of these
- 13. The total number of chromosomes in a person suffering with Klinefelter syndrome is :
 - a) 45 b) 47 c) 46 d) 44

- 14. The following is not a characteristic feature of Klinefelter syndrome in male :
 - a) Mongoloid features b) Sparse Body hair c) Sterility d) Breast development
- 15. The following is an example of autosomal disorder :
 - a) Turner syndrome b) Down Syndrome c) Klinefelter syndrome d) All of these

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