

MCQ TEST SERIES**S12-BZ-C4-PRINCIPLES OF INHERITANCE AND VARIATION****4.9. CHROMOSOMAL ABNORMALITIES**

1. Chromosomal abnormalities are primarily caused by:
 - A. Hormonal imbalance
 - B. Environmental pollution
 - C. Errors during cell division (non-disjunction)
 - D. Gene point mutations
2. The condition where an individual has one extra chromosome is called:
 - A. Monosomy
 - B. Trisomy
 - C. Euploidy
 - D. Nullisomy
3. Which of the following syndromes is due to trisomy of chromosome 21?
 - A. Patau's syndrome
 - B. Turner's syndrome
 - C. Down's syndrome
 - D. Klinefelter's syndrome
4. Patau's syndrome is caused due to trisomy of:
 - A. Chromosome 21
 - B. Chromosome 13
 - C. Chromosome 18
 - D. Chromosome 23
5. Down's syndrome is characterized by:
 - A. Webbed neck and short stature
 - B. Elongated limbs and enlarged testes
 - C. Flattened face, mental retardation, protruding tongue
 - D. Degeneration of motor neurons
6. Klinefelter's syndrome is a result of:
 - A. XO karyotype
 - B. XXY karyotype
 - C. XY karyotype
 - D. XYY karyotype
7. Klinefelter's individuals are usually:
 - A. Sterile females
 - B. Fertile males
 - C. Sterile males
 - D. Fertile hermaphrodites
8. What is the chromosome composition in Turner's syndrome?
 - A. 47, XXY
 - B. 45, XO
 - C. 46, XY
 - D. 47, XYY
9. Which of the following symptoms is not typical of Turner's syndrome?
 - A. Webbed neck
 - B. Underdeveloped breasts
 - C. Gynaecomastia
 - D. Rudimentary ovaries
10. What is the cause of aneuploidy?
 - A. Gene mutation
 - B. Non-disjunction during meiosis or mitosis
 - C. Chromosomal translocation
 - D. Chemical exposure
11. In chromosomal terminology, a "syndrome" refers to:
 - A. Any infectious disease
 - B. A hereditary point mutation
 - C. A set of symptoms due to chromosomal anomaly
 - D. A behavioural disorder
12. How many chromosomes are found in a person with Down's syndrome?
 - A. 44
 - B. 45
 - C. 46
 - D. 47
13. The most common chromosomal abnormality resulting in viable offspring is:
 - A. Turner's syndrome
 - B. Trisomy 21 (Down's syndrome)
 - C. XO
 - D. Triploidy
14. Which of the following is an autosomal trisomy?
 - A. XXY
 - B. XO
 - C. 21-Trisomy
 - D. XYY
15. Allosomal abnormalities involve:
 - A. Only autosomes
 - B. Chromosome 13
 - C. Sex chromosomes
 - D. Mitochondrial DNA

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ANSWER KEY

1. C
2. B
3. C
4. B
5. C
6. B
7. C
8. B
9. C
10. B
11. C
12. D
13. B
14. C
15. C

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