MOD1-SOC102-Human Genetics/ Genetic Screening

- 1. This is a method of cell division in which the two daughter cells have an equal number of chromosomes to each other and to the parent cell.
 - a. mitosis
 - b. meiosis
 - c. pinocytosis
 - d. cotyledosis
- 2. Cell division, wherein, each daughter nucleus receives half the number of chromosomes typical of somatic cells, is referred to as:
 - a. Mitosis
 - b. Pinocytosis
 - c. Meiosis
 - d. haploidosis
- 3. When 2 sperm fertilize one egg, this results in:
 - a. triploidy
 - b. tetraploidy google definition says two times the number of chromosomes
 - c. Tetralogy of Fallot
 - d. aneuploidy
- 4. Which condition occurs when there is a failure of the first cleavage division of the zygote resulting in cells that contain 92 chromosomes?
 - a. aneuploidy
 - b. triploidy
 - c. tetraploidy
 - d. monosomy 45x
- 5. Trisomy 13 is characterized by:
 - a. mental retardation
 - b. congenital heart defects
 - c. cleft palate and lip
 - d. all of the above
- 6. Diploid is defined as:
 - a. having two sets of chromosomes
 - b. a molecule having separated charges of equal and opposite signals
 - c. having half the number of chromosomes found in the somatic cells of an organism
 - d. a result of meiosis

- 7. The most common type of Trisomy is:
 - a. Trisomy 21
 - b. Trisomy 13
 - c. Trisomy 22
- 8. Aneuploidy is the addition or loss of one chromosome
 - a. true
 - b. false
- 9. Structural chromosomal abnormalities can include:
 - a. deletions
 - b. translocations
 - c. isochromosomes
 - d. all of the above
- 10. The loss of chromatin from a chromosome is called:
 - a. microdeletion
 - b. deletion
 - c. translocation
 - d. a and b only
- 11. Autosomal dominant inheritance describes diseases that:
 - a. affect individuals when they receive only one defective copy of the gene from either parent
 - b. affect individuals when they receive two defective copies of the gene, one from each parent
 - c. affect males only
 - d. affect females only
- 12. All these autosomal dominant disorders can be detected by genetic screening, except:
 - a. testicular feminization
 - b. Huntington's disease
 - c. Hunter Syndrome
 - d. BOR Syndrome
- 13. All below is true of a teratogen, except;
 - a. it is an infectious agent that affects the fetal development
 - b. a disease that can permanently alter fetal morphology
 - c. it has a mitochondrial inheritance
 - d. it has less power to harm the fetus from developmental periods between 9-38 weeks

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14. The maximum teratogenic period in a. 3-8 wks b week 1 c. 2-10 weeks d. 10-18 wks	fetal development is

- 15. Which disease can have a teratogenic affect on the fetus?
 - a. rubella
 - b. herpes
 - c. HIV
 - d. All of the above
- 16. Non-viral infections do not have a teratogenic effect on the fetus.
 - a. true
 - b. false
- 17. Nicotine is a category D drug.
 - a. true
 - b. false
- 18. Which of these mothers needs counseling for genetic screening?
 - a. a woman with a high risk medical history
 - b. a woman of advanced maternal age
 - c. a woman with abnormal lab results
 - d. all of the above
- 19. Which is true about chorionic villus sampling?
 - a. it is performed in the first trimester
 - b. the villi is removed from the placenta with a needle
 - c. a and b
 - d. it is only done in the second trimester
- 20. The mechanisms of amniocentesis include:
 - a. removing chorionic villi from the placenta
 - b. removing fluid from the uterine cavity
 - c. puncturing the cord with a needle
 - d. transfusion of fluid to the amniotic sac
- 21. Chorionic villi sampling is _____ reliable
 - a. 97-98%
 - b. 99%
 - c. 75%

d. there is no data to support this