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Biology Worksheet grade 12 Question from genetics

1. Which of the following cells lack nucleus when matured?
A) nerve cell B) muscle cell C) white blood cells D) red blood cells
2. What are the two main structures inside the nucleus?
A) chromosome and DNA B) chromosome and RNA
C) chromosome and nucleosome D) chromosome and nucleolus
3. The hereditary material contained in the chromosomes is
A) RNA B) gene C) histone D) double helix
4. Pair of chromosomes are called
A) tetrads B) homologous C) homozygous D) heterozygous
5. How many autosomal chromosomes do you have? A) 23 B) 2 C) 46 D) 22
6. According to base paring rule, which of the following is TRUE?
A) adenine pairs with thymine B) cytosine pairs with guanine
C) adenine pairs with uracil D) cytosine pairs with adenine
7. Which of the following is TRUE about purine bases?
A) members of purine bases have double rings
B) members of purine bases have single rings
C) members of purine bases are guanine and adenine
D) members purine bases are adenine and thymine
8. Identify the TRUE statement about DNA
A) DNA has bases adenine, cytosine, thymine and uracil C) DNA bases connect the two strands
B) DNA has a sugar - nitrogen base backbone D) the base uracil bonds with adenine
9. In DNA molecule the base, sugar and phosphate make up
A) mitosis B) nucleus C) protein in the nucleolus D) nucleotide
10. Somatic cells are
A) any of the cells of a plant or animal except the reproductive cells
B) all of the cells of a plant or animal including the reproductive cells
C) any of the reproductive cells except other cells of a plant or animal
D) cells of plants, animals and viruses that reproduce sexually
11. The two identical cells that are formed when the cell reproduces itself by splinting into two are called
A) chromatids cells B) centromeres cells C) daughter cells D) spindle cells
12. Which one is the correct sequence of phases of mitosis?
A) anaphase, telophase, prophase and metaphase B) prophase, anaphase, telophase, and metaphase
C) prophase, anaphase, , metaphase and telophase D) prophase, metaphase, anaphase and telophase
13. The structure that joins two sister chromatids during cell division is
A) centromere B) centrosome C) telomere D) centriole
14. In cell cycle a period of active cell division implies
A) increase in number of cells B) increase in the mass
C) decrease in RNA amount D) increase in number of organelles
15. Which of the following is TRUE of meiosis?
A) in a girl the first stage of meiosis is completed before she is born
B) in a boy the first stage of meiosis is completed before he is born
C) meiosis produces two identical daughter cells
D) meiosis takes place in all body cell to repair the damaged ones
16. What is the role of spindle fibers in cell division?
A) they join the dividing chromatids together B) they pull the chromatids to opposite pole
C) separate the two cells during division D) they divide the nucleus of the dividing cell
17. Which of the following is not the end of body cell division?
A) producing cells for growth B) producing cells for repair
C) producing cells for replacement D) production of gamete cells
18. Pair of sex chromosomes in female are:
A) XX B) XY C) YY D) XXY