113 THINGS YOU SHOULD KNOW FOR THE LIVING ENVIRONMENT REGENTS EXAM

1. Amino acids are the individual units that bond together to form a polypeptide (protein).
2. Monosaccharides are the individual units that bond to together to form a polysaccharide (starch).
3. Enzymes are protein molecules that catalyze (help) chemical reactions.
4. The 3–dimensional shape of a molecule it important to its proper functioning.
5. Bacteria are prokaryotic cells, which lack a nucleus, and other membrane bound organelles.
6. The nucleus contains DNA in eukaryotic cells.
7. Chloroplasts are organelles found in autotrophic cells that produce glucose in the process of photosynthesis.
8. Mitochondria are the organelles where aerobic cellular respiration occurs to produce ATP energy in cells.
9. The cell membrane is a selectively permeable boundary around a cell.
10. Diffusion from high to low concentration will occur across a membrane if the molecules are small and unchanged.
11. A large surface area will allow for a fast rate of diffusion into a cell. (e.g. root hairs, villi)
12. Active transport occurs when membrane proteins use ATP energy to carry materials into and out of a cell.
13. Receptor proteins in cell membranes attach to specific molecules.
14. Many of the cells inside the human body are differentiated to carry out specific functions. While all cells have the same DNA, some genes are activated and others inactivated, causing cells and tissues to differentiate.
15. Mitosis involves a diploid cell dividing into two identical daughter cells.
16. Cancer involves body cells dividing uncontrollably by mitosis.
17. Meiosis is the process of producing monoploid cells.
18. Meiosis is one of the factors responsible for producing variation among the gametes produced by an organism.
19. New individuals of an existing species are produced through the process of reproduction.
20. Asexual reproduction produces offspring that are genetically identical to the parent organism.
21. Modern cell biology techniques allow complex organisms such as mammals to be clones.
22. DNA mutations and chromosomal abnormalities may be passed on to the next generation if they are located in cells that produce gametes.
23. Testosterone is the hormone that stimulates gamete (sperm) production and the formation of secondary sex characteristics in males.
24. Fertilization is the process that involves the fusion of a monoploid sperm cell with a monoploid egg cell to form a diploid cell called a zygote.
25. During intrauterine development in humans, the placenta are necessary to maintain homeostasis.
26. If parents with desirable characteristics are selected to mate, the chance that their offspring will possess the alleles for these characteristics is high.
27. Genetic diseases are inherited through DNA codes and are transmitted from parents to offspring during sexual reproduction.
28. Each chromosome holds hundreds of genes. 46 chromosomes hold 40,000 genes.
29. Environmental factors such as temperature and light can turn–on and turn–off genes in organisms.
30. DNA replication involves making an identical copy of a cell's DNA.
31. DNA replication involves matching nucleotide bases together using the law of complementary base pairing. A-T and C-G
32. During DNA replication, the double strand of DNA unzips, as weak H bonds between the base pairs are broken.
33. DNA ——> RNA ——> Protein
34. DNA mutations may result in the production of abnormal proteins that do not function correctly, or in the stopping of protein production.
35. Insertion of recombinant plasmids into bacterial cells by transformation will allow them to produce new proteins.
36. Electrophoresis is a technique used to separate fragments of cut DNA according to size.

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Table of Contents Living Environment Regent Study Guide

1. Understanding the eBook Living Environment Regent Study Guide
    - The Rise of Digital Reading Living Environment Regent Study Guide
    - Advantages of eBooks Over Traditional Books
2. Identifying Living Environment Regent Study Guide
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Living Environment Regent Study Guide
    - User-Friendly Interface
4. Exploring eBook Recommendations from Living Environment Regent Study Guide
    - Personalized Recommendations
    - Living Environment Regent Study Guide User Reviews and Ratings
    - Living Environment Regent Study Guide and Bestseller Lists
5. Accessing Living Environment Regent Study Guide Free and Paid eBooks

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