

AP Biology Practice Exam 21

Multiple Choice Questions

1. **Which of the following best describes a plasmid?** A) A mobile genetic element found primarily in eukaryotic cells. B) A small, circular DNA molecule found in bacteria that is separate from the chromosomal DNA. C) A structure within the nucleus that aids in cell division. D) An enzyme that helps in the replication of DNA.
2. **Which cellular process is responsible for the breakdown of organic molecules to release energy stored in ATP?** A) Photosynthesis B) Fermentation C) Cellular respiration D) Nitrogen fixation
3. **Which organelle is responsible for packaging and sorting proteins for secretion?** A) Smooth endoplasmic reticulum B) Golgi apparatus C) Lysosomes D) Mitochondria
4. **What is the primary role of mRNA in cells?** A) To carry genetic information from the DNA to the ribosome B) To catalyze the formation of peptide bonds C) To store genetic information D) To capture and convert energy
5. **What type of bond is primarily responsible for the structure of water and its solvent properties?** A) Covalent bonds B) Hydrogen bonds C) Ionic bonds D) Van der Waals interactions
6. **What process directly uses both ATP and NADPH to convert CO₂ into glucose?** A) Glycolysis B) Krebs cycle C) Calvin cycle D) Light-dependent reactions
7. **In an ecosystem, what is a trophic level?** A) A community of organisms that share a similar diet and nutritional needs B) The sequence of organisms through which energy flows in an ecosystem C) A specific level of organization within an ecosystem where nutrient cycling occurs D) The level at which an organism feeds in a food web
8. **Which enzyme is responsible for relaxing supercoiling ahead of the replication fork?** A) DNA polymerase B) Helicase C) Topoisomerase D) Ligase
9. **What is the significance of sexual reproduction in the evolution of populations?** A) It reduces genetic diversity within a population. B) It allows for genetic recombination, increasing genetic diversity. C) It ensures that offspring are identical to the parent. D) It stabilizes genetic traits without variation.
10. **Which process in the nitrogen cycle converts ammonia into nitrites and nitrates?** A) Ammonification B) Denitrification C) Nitrification D) Nitrogen fixation

Answer Key for Practice Exam 21:

1. **B) A small, circular DNA molecule found in bacteria that is separate from the chromosomal DNA.**
2. **C) Cellular respiration**
3. **B) Golgi apparatus**
4. **A) To carry genetic information from the DNA to the ribosome**
5. **B) Hydrogen bonds**
6. **C) Calvin cycle**
7. **D) The level at which an organism feeds in a food web**

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Christian G. Meyer



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