

AP Biology Test 5 (Chapters 16, 17, 18, 47)

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- In his transformation experiments, Griffith observed that
 - mutant mice were resistant to bacterial infections.
 - mixing a heat-killed pathogenic strain of bacteria with a living nonpathogenic strain can convert some of the living cells into the pathogenic form.
 - mixing a heat-killed nonpathogenic strain of bacteria with a living pathogenic strain makes the pathogenic strain nonpathogenic.
 - infecting mice with nonpathogenic strains of bacteria makes them resistant to pathogenic strains.
 - mice infected with a pathogenic strain of bacteria spread the infection to other mice.
- When T2 phages infect bacteria and make more viruses in the presence of radioactive sulfur, what is the result?
 - The viral DNA will be radioactive.
 - The viral proteins will be radioactive.
 - The bacterial DNA will be radioactive.
 - both A and B
 - both A and C
- Cytosine makes up 38% of the nucleotides in a sample of DNA from an organism. Approximately, what percentage of the nucleotides in this sample will be thymine?
 - 12
 - 24
 - 31
 - 38
 - Can't tell.
- The DNA double helix has a uniform diameter because _____, which have two rings, always pair with _____, which have one ring.
 - purines; pyrimidines
 - pyrimidines; purines
 - deoxyribose sugars; ribose sugars
 - ribose sugars; deoxyribose sugars
 - nucleotides; nucleoside triphosphates
- What kind of chemical bond is found between paired bases of the DNA double helix?
 - hydrogen
 - ionic
 - covalent
 - sulfhydryl
 - phosphate
- It became apparent to Watson and Crick after completion of their model that the DNA molecule could carry a vast amount of hereditary information in its
 - sequence of bases.
 - phosphate-sugar backbones.
 - complementary pairing of bases.
 - side groups of nitrogenous bases.
 - different five-carbon sugars.
- Which enzyme catalyzes the elongation of a DNA strand in the 5' → 3' direction?
 - primase
 - DNA ligase
 - DNA polymerase
 - topoisomerase
 - helicase
- Which of the following is *least* related to the others on the list?
 - Okazaki fragments
 - replication fork
 - telomerase
 - DNA polymerase
 - semiconservative model
- The Y-shaped structure where the DNA double helix is actively unwound during DNA replication is
 - replication fork.
 - replication Y.
 - elongation junction.
 - unwinding point.
 - Y junction.

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