

CAMPBELL'S BIOLOGY 10TH EDITION

CH 4, 5, 6 EXAM STUDY GUIDE

QUESTIONS WITH CORRECT ANSWERS

Tissues - Answer-A group of specialized cells that perform a particular function

Plant cells contain: - Answer-Cell wall; chloroplasts; central vacuole

Stanley Miller's experiment in 1953 confirmed: - Answer-Organic molecules can be made from non living molecules

Abiotic synthesis - Answer-Creating organic molecules from non living materials

Carbon - Answer-Can make four covalent (unusual) bonds to fill outer shell to 8

Hydrogen valence - Answer-=1

Oxygen valence - Answer-=2

Nitrogen valence - Answer-=3

Carbon valence - Answer-=4

C₂H₆ - Answer-H H



Double bonds - Answer-Share the carbons

Triple bonds - Answer-are possible between two carbons

Structural Isomer - Answer-Same molecular formula, different structure-makes them different chemicals

Cis-trans Isomer - Answer-Carbon to carbon double bonds

Cis-Isomer - Answer-Carbon bonds to other molecules from the same side; nature prefers

Trans-Isomer - Answer-Carbon bonds to other molecules one on either side

Campbell Guide Answers

SA Adler

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