- 1. What is isomerism?
- a. The study of atoms and molecules
- b. The study of the physical and chemical properties of matter
- c. The study of the arrangement of atoms in molecules
- d. The study of the way atoms bond to form molecules
- 2. Which of the following is NOT an isomer?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 3. Which of the following is an example of constitutional isomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 4. Which of the following is an example of stereoisomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 5. Which of the following is an example of cis-trans isomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 6. Which of the following is an example of enantiomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 7. Which of the following is an example of diastereomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 8. Which of the following is an example of conformational isomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 9. Which of the following is an example of metamerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane
- d. Propane and propene
- 10. Which of the following is an example of tautomerism?
- a. Ethanol and dimethyl ether
- b. Butane and isobutane
- c. Pentane and isopentane

d. Propane and propene

Answer Key: 1. c 2. d 3. b 4. c 5. d 6. b 7. c 8. d 9. b 10. c