CHEM 4401 Molecular Spectroscopy: The nuclear magnetic resonance of molecules

1. What is the nuclear magnetic resonance of molecules?

a. The ability of molecules to absorb and emit electromagnetic radiation

b. The ability of molecules to absorb and emit nuclear radiation

c. The ability of molecules to absorb and emit both nuclear and electromagnetic radiation

d. The ability of molecules to absorb and emit neither nuclear nor electromagnetic radiation

2. How does the nuclear magnetic resonance of molecules work?

a. By absorbing and emitting electromagnetic radiation

b. By absorbing and emitting nuclear radiation

c. By absorbing and emitting both nuclear and electromagnetic radiation

d. By absorbing and emitting neither nuclear nor electromagnetic radiation

3. What is the nuclear magnetic resonance of molecules used for?

a. To determine the structure of molecules

b. To determine the composition of molecules

c. To determine the properties of molecules

d. To determine the behavior of molecules

4. What are the benefits of using the nuclear magnetic resonance of molecules?

a. It is non-invasive

b. It is precise

c. It is fast

d. All of the above

5. What are the limitations of using the nuclear magnetic resonance of molecules?

a. It is expensive

b. It is time-consuming

c. It requires special equipment

d. All of the above

Answer Key:

1. c

2. a

3. d

4. d

5. d