

Ch 14 Practice MC problems

1. Which of the following molecules contains a nitrogen atom that is sp^2 hybridized?
- A) NH_3
 - B) NO_3^-
 - C) N_2
 - D) HCN
 - E) C_2N_2

2. Consider the structure of glycine, the simplest amino acid:

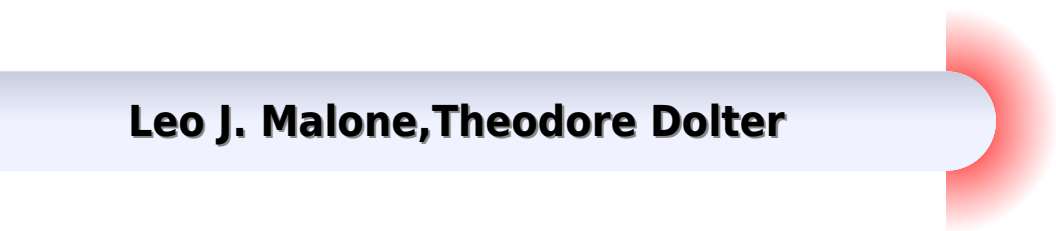


What is the total number of π bonds in the molecule?

- A) 0
 - B) $1/2$
 - C) 1
 - D) 2
 - E) More information is needed.
3. What is the hybridization of I in the molecule ICl_3 ?
- A) sp
 - B) sp^2
 - C) sp^3
 - D) dsp^3
 - E) d^2sp^3
4. What is the hybridization of S in the molecule H_2S ?
- A) sp
 - B) sp^2
 - C) sp^3
 - D) dsp^3
 - E) d^2sp^3
5. What is the hybridization of C in the ion CN^- ?
- A) sp
 - B) sp^2
 - C) sp^3
 - D) dsp^3
 - E) d^2sp^3
6. Atoms that are sp^3 hybridized form _____ pi bond(s).
- A) 0
 - B) 1
 - C) 2
 - D) 3
 - E) 4
7. What is the hybridization of the central atom in SF_6 ?
- A) sp
 - B) sp^2
 - C) sp^3
 - D) dsp^3
 - E) d^2sp^3

Standardized Test Practice Chapter 14 Chemistry Answers

Leo J. Malone, Theodore Dolter



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