

Answer Key

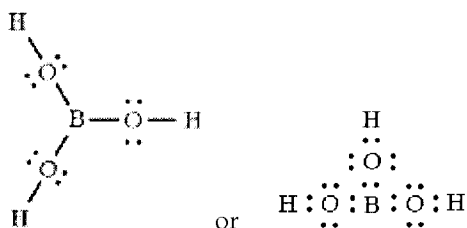
Testname: REVIEW QUESTIONS CHAPTER 1.TST

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

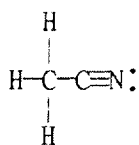
- 1) isotopes
- 2) s
- 3) 6

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

4)



5)



MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 6) B
- 7) C
- 8) B

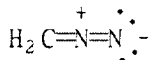
ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 9) Trifluoromethanesulfonic acid is a stronger acid. Compare the strengths of the conjugate bases and remember that the weaker the base, the stronger the conjugate acid. Both bases are stabilized by resonance, but in the case of the trifluoro derivative, the presence of the highly electronegative fluorine atoms serves to delocalize the negative charge to an even greater extent. This additional delocalization makes trifluoromethanesulfonate a weaker base.

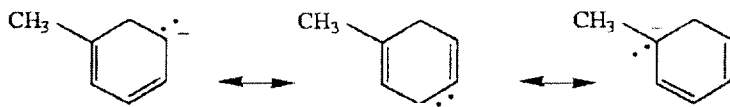
10)



11)



12)



- 13) BH_3 , electrophile
 CH_3SCH_3 , nucleophile