

Chemistry 2541, Fall 2017

Quiz 1

(30 points)

Important notes:

- Please use the provided Scantron form for your answers; you can keep the sheet with the questions and can use it as scratch paper
- Do not forget to write your name on the Scantron form
- You will not receive credit for unmarked answers or for more than one mark on answer line
- Your scores will be posted on eGradebook; graded Scantron forms will not be returned to students.

Questions 1-10: Please mark the appropriate box on the front of the Scantron form (3 pts each).

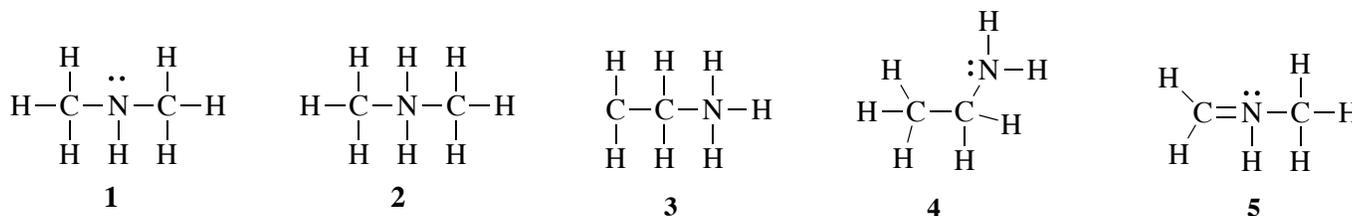
1. Which **element** has the following electronic configuration: $1s^2 2s^2 2p^2 2p^1 2p^1$?

- A) C B) N C) O D) F

2. Which one of the following pairs of elements will form an **ionic** compound?

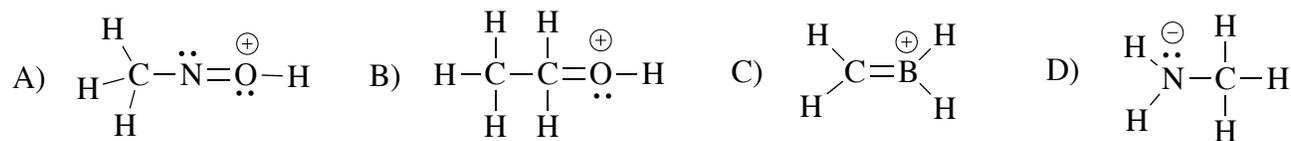
- A) Be and O B) F and C C) O and N D) F and H

3. Which two of the following structures represent correct **Lewis structures** of a compound with molecular formula C_2H_5N ?



- A) 1 and 3 B) 2 and 4 C) 3 and 5 D) 1 and 4

4. Which one of the following polyatomic ions is a correct **Lewis structure** with correct **formal charges**?



5. Which of the **line-angle** structures corresponds to the **condensed** structural formula shown in the box?

