Question 1: A sample is composed of 2.78 g of iron and 1.19 g of oxygen. The empirical formula is \_\_\_\_\_\_\_\_.

A) FeO2

B) Fe2O5

C) Fe2O3

D) FeO

Question 2: Which of the following compounds has its oxygen composition equal to 50.0%?

A) (NH4)2CO3

B) CH2O2

C) C2H3NO2

D) C10H20ONS

Question 3: Which of the following compounds has its nitrogen composition equal to 29.2%?

A) C2H3NO2

B) C10H20ONS

C) (NH4)2CO3

D) N2H4