CHMA10 2022F 2nd Term Test

Name_____ Student Number_____

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

1) Place the following in order of increasing X–A–X bond angle, where A represents the central atom and X represents the outer atoms in each molecule. 1) _____

HCN H_2O H_3O^+

A) $H_3O^+ < H_2O < HCN$

B) $HCN < H_3O^+ < H_2O$

C) $H_2O < H_3O^+ < HCN$

D) $H_3O^+ < HCN < H_2O$

E) $H_2O < HCN < H_3O^+$

2) The volume of a gas is inversely proportional to the pressure of a gas. What is this known as? 2) _____

A) Dalton's law

B) Avogadro's law

C) Charles's law

D) Boyle's law