CHMA10 2022F 2nd Term Test

Name_____ Student Number_____

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

1) Convert 1.25 atm to bar. 1) _____
A) 1.27 bar B) 1.23 bar C) 1.25 bar D) 0.7874 bar E) 0.975 bar

2) The volume of a gas is inversely proportional to the pressure of a gas. What is this known as? 2) _____
A) Avogadro's law
B) Dalton's law
C) Boyle's law
D) Ideal gas law
E) Charles's law

3) What volume (in mL) will a sample of F_2 gas occupy in a syringe at 5.57 bar if the F_2 has a volume of 25.0 mL at 1.22 bar? 3) _____
A) 7.6 mL B) 17 mL C) 11 mL D) 5.5 mL E) 3.8 mL

4) Calculate the temperature, in K, of 2.20 moles of gas occupying 3.50 L at 3.30 bar. 4) _____
A) 28.0 K B) 5.25 K C) 63.1 K D) 337 K

5) A mixture of 0.220 moles CO, 0.350 moles H_2, and 0.640 moles He has a total pressure of 2.989 bar. 5)