CHM 1001 General Chemistry

Assignment Answers

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Part 1: Multiple-choice questions

Question No.	Answers
1	C
2	E
3	C
4	D
5	C
6	A
7	B
8	C
9	A
10	D
11	C
12	C
13	D
14	D
15	A
16	C
17	D
18	B
19	C
20	C
Grades	

Part 2: Short answer questions (You can add pages if needed)

1. $n_1 R_1 = n_2 R_2$

$$\frac{P_1 \cdot V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

$$\frac{1 atm \cdot 6.0 L}{295 K} = \frac{0.45 atm \cdot V_2}{252°K}$$

$$V_2 = 11.4 L$$

2. $P_1 = \frac{nRT}{V} = \frac{(\frac{62.07-55.85}{16} \cdot 10^3)(0.082)(294)}{49} atm$

$P_1 = 191 atm$

$(P_2 + \frac{n^2 \alpha}{v^2})(v-nb) = nRT$

$P_2 = \frac{P_1 V}{V-nb} - \frac{n^2 \alpha}{v^2} = \frac{191.265 \cdot 49}{49 - (\frac{62.07-55.85}{16} \cdot 10^3)} - \frac{(\frac{62.07-55.85}{16} \cdot 10^3)^2 \cdot (2.253)}{49^2} atm$

$P_2 = 149 atm$

3 a. dispersion force

   b. dipol-dipol

   c. hydrogen bond

4 a. P

   b. n

5. (c), (d) & (f)