

إضغط على الرقم للإنتقال مباشرة للسؤال

1 2 3 4 5 6 7 8 9 10 11 12

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Question 1 / 12

مميز هذا السؤال

How many atoms are in 2 moles?

1. $2 \times (6.02 \times 10^{23})$
2. $2 \times (\text{atomic mass})$
3. $2 \div (6.02 \times 10^{23})$
4. $2 \times (\text{molecular mass})$
5. 2

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إضافة ملاحظة

Question 2 / 12

مميز هذا السؤال

If 100.0 L of nitrogen gas is collected over water at 60.0 °C when the atmospheric pressure is 680.0 mm Hg, what is the partial pressure of the nitrogen gas?

The vapor pressure of water at 60.0 °C = 158.1 mmHg

1. 704.6 mmHg
2. 626.4 mmHg
3. 521.9 mmHg
4. 680.0 mmHg
5. 158.1 mmHg

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Question 3 / 12

ميز هذا السؤال

10.0 L container contains 0.60 mol of CO_2 , 0.30 mol of Cl_2 , and an unknown moles of N_2 .

If the total pressure was 4.43 atm at 23.0°C . Calculate the partial pressure of N_2 .

($R = 0.0821 \text{ L}\cdot\text{atm}/\text{K}\cdot\text{mol} = 8.314 \text{ J}/\text{mol}\cdot\text{K}$)

1. 1.27 atm
2. 2.24 atm
3. 3.21 atm
4. 4.71 atm
5. 5.82 atm

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Question 4 / 12

ميز هذا السؤال

A quantity of gas has volume of 250.0 L at 17.0 °C and 3.00 atm of pressure. What is the volume of the gas at STP conditions?

($R = 0.0821 \text{ atm}\cdot\text{L}/\text{mol}\cdot\text{K} = 8.314 \text{ J}/\text{mol}\cdot\text{K}$)

1. 941.4 L
2. 706.0 L
3. 353.3 L
4. 470.7 L
5. 235.5 L

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Question 5 / 12

ميز هذا السؤال

What is the empirical formula of a compound composed of Cr and O, if the mass percentage of Cr is 52.0% ?

(Molar

mass of Cr = 52 g/mol; O = 16 g/mol)

1. CrO_2
2. CrO_3
3. Cr_2O_3
4. Cr_2O_7
5. Cr_2O_4

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إضافة ملاحظة

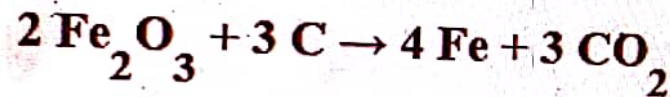
إضغط على الرقم للإنتقال مباشرة للسؤال

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Question 6 / 12

ميز هذا السؤال



If 28 grams of C are used, calculated the percent yield, if 81.2 g of CO_2 are actually obtained ?

(molar mass of C = 12 g/mol; O = 16 g/mol; Fe = 56 g/mol)

1. 65.8%
2. 54.8%
3. 22.9%
4. 15.5%
5. 79.1%

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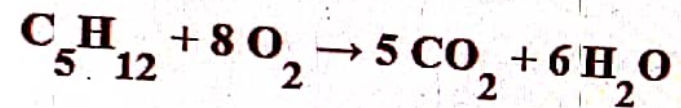
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Question 7 / 12

میز هذا السؤال

For the given reaction



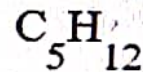
If 3 molecules of C_5H_{12} reacts with 8 molecules of O_2 ; How many molecule of the excess reactant are left over?

- 0
- 1 molecule from



- 1 molecule from O_2

- 2 molecules from



- 2 molecules from O_2

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Question 8 / 12

ميز هذا السؤال

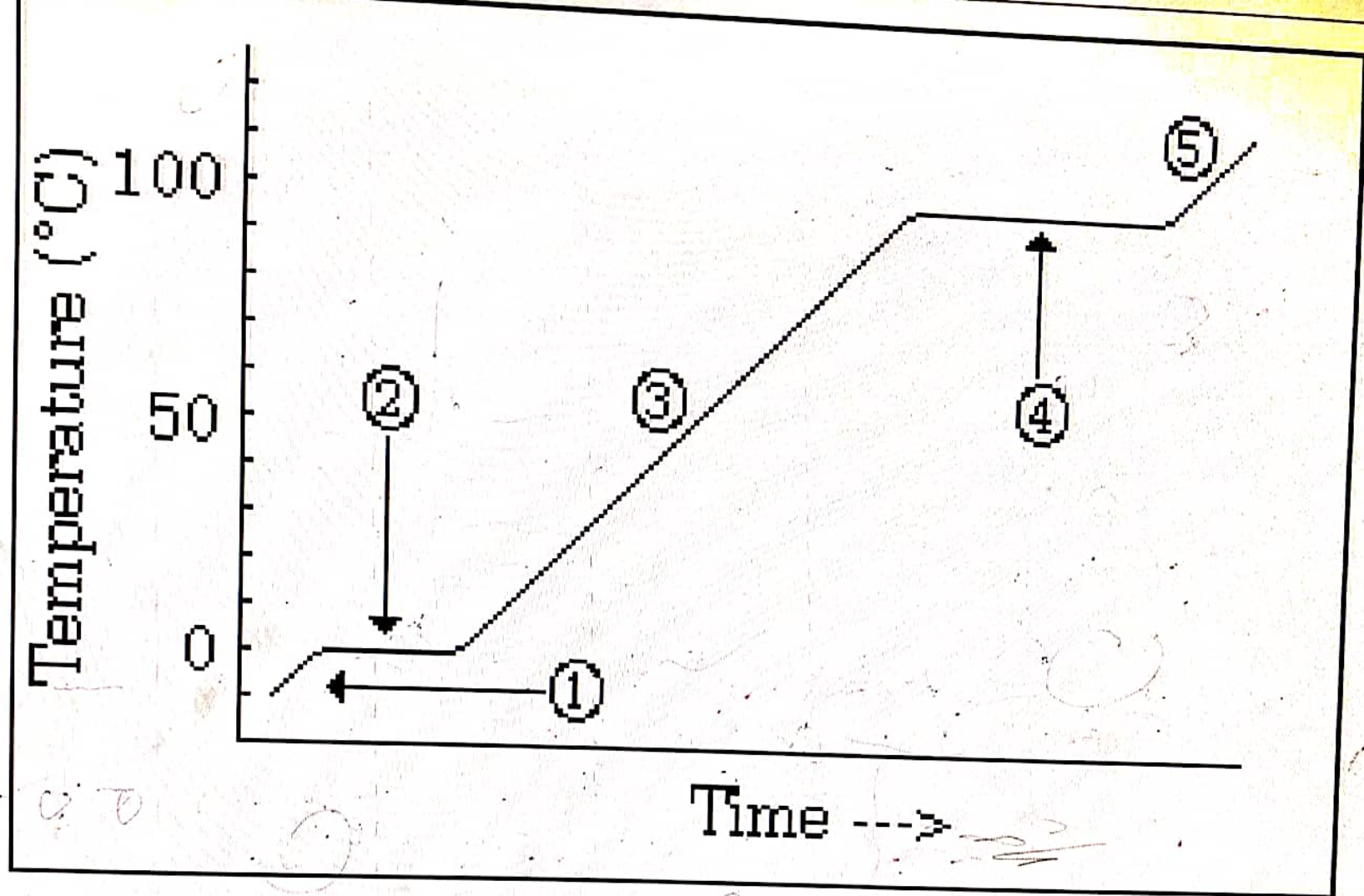
What is the strongest type of intermolecular force exists between Br⁻ and H₂O?

- 1. dipole-dipole interaction
- 2. ion-induced dipole interaction
- 3. hydrogen bonding
- 4. ion-dipole interaction
- 5. London dispersion force

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Question 9 / 12

میز هذا السؤال

For the following phase changes diagram; point 5 represent

1. Solid only
2. Liquid only
3. Gas only
4. Solid and Liquid
5. Liquid and Gas

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Question 10 / 12

ميز هذا السؤال

Water's resistance to flow is

1. Adhesion
2. Cohesion
3. Surface tension
4. Capillary action
5. Viscosity

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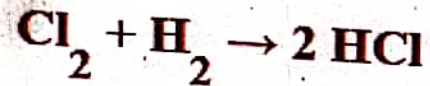
إضافة علامة

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Question 11 / 12

ميز هذا السؤال

Which of the following statements is FALSE for the chemical equation given below?
(molar mass of H = 1.0 g/mol; Cl = 35.5 g/mol)



1. The reaction of one mole of H_2 will produce 2 moles of HCl.
2. Two mole of Cl_2 will produce 73 g of HCl.
3. One molecule of Cl_2 requires one molecules of H_2 for complete reaction.
4. The reaction of 71 g of Cl_2 produces 73 g of HCl.
5. The reaction of one moles of H_2 will produce 73 g of HCl.

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12

Finish

00 : 07 : 13

Question 12 / 12

ميز هذا السؤال

A phase transition where a gas turns into a liquid is _____.

1. condensing
2. subliming
3. melting
4. boiling
5. deposition.

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