

SAT Chemistry practice paper

Question 1

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Reaction of silver ion with chloride ion in water solution

Select an Answer

- A Precipitation
- B Oxidation-reduction
- C Distillation
- D Hydration
- E Condensation

Question 2

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Electrolysis of water to form hydrogen and oxygen gases

Select an Answer

- A Precipitation
- B Oxidation-reduction
- C Distillation
- D Hydration
- E Condensation

Question 3

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Reaction of iron filings with powdered sulfur

Select an Answer

- A Precipitation
- B Oxidation-reduction
- C Distillation
- D Hydration
- E Condensation

Question 4

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Is weakly acidic

Select an Answer

A

0.1 M HCl

B

0.1 M NaCl

C

0.1 M HC₂H₃O₂

D

0.1 M CH₃OH

E

0.1 M KOH

Question 6

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Has the highest ^{pH}

Select an Answer

A

0.1 M HCl

B

0.1 M NaCl

C

0.1 M HC₂H₃O₂

D

0.1 M CH₃OH

E

0.1 M KOH

Question 7

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Reacts with an equal volume of 0.05 M Ba(OH)_2 to form a solution with $\text{pH} = 7$

Select an Answer

A

0.1 M HCl

B

0.1 M NaCl

C

$0.1\text{ M HC}_2\text{H}_3\text{O}_2$

D

$0.1\text{ M CH}_3\text{OH}$

E

Question 8

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

A type of ion found in aluminum oxide

Select an Answer

A

X^+

B

X^{2+}

C

X^{3+}

D

XO_3^{2-}

E

XO_4^{2-}

Question 9

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

A type of ion found in potassium phosphate

Select an Answer

A



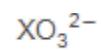
B



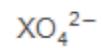
C



D



E



Question 10

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

A type of ion found in sodium acetate

Select an Answer

A



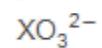
B



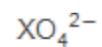
C



D



E



Question 11

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Has electrons in f orbitals

Select an Answer

A

Ar

B

O

C

S

D

Ti

E

U

Question 12

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Has the electron configuration $1s^2 2s^2 2p^6 3s^2 3p^4$

Select an Answer

A

Ar

B

O

C

S

D

Ti

E

U

Question 13

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Has the same number of electrons as Ca^{2+}

Select an Answer

- A
- Ar
- B
- O
- C
- S
- D
- Ti
- E
- U

Question 14

The set of lettered choices below refers to multiple questions. Select the one lettered choice that best fits each statement or answers each question. A choice may be used once, more than once, or not at all in each set.

Is the LEAST chemically reactive

Select an Answer

- A
- Ar
- B
- O
- C
- S
- D
- Ti
- E
- U