Chemistry SAT Practice Test 26

SET-1

1. The most active nonmetallic element is
A. chlorine
B. fluorine
C. oxygen
D. sulfur
E.
2. The order of decreasing activity of the halogens is
A. Cl, I, Br
B. F, Cl, Br, I
C. Cl, F, Br, I
D. Cl, Br, I, F
E.
3. A light-sensitive substance used on photographic films has the formula
A. AgBr
B. CaF ₂
C. CuCl
D. MgBr ₂
E.
4. Sulfur dioxide is the anhydride of
A. hydrosulfuric acid
B. sulfurous acid
C. sulfuric acid
D. hyposulfurous acid
E.
5. The charring action of sulfuric acid is due to its being

E.
10. An important ore of iron is
A. bauxite
B. galena
C. hematite
D. smithsonite
E.
11. A reducing agent used in the blast furnace is
A. CaCO₃
B. CO
C. O ₂
D. SiO ₂
E.
12. The metal with the electron shell configuration of [Ar] $3d^{10} s^1$ is
A. Cu
B. Ag
C. Au
D. Zn
E. Al
13. The placement of the halogen family in the Periodic Table explains which of the following statements?
I. The most active nonmetallic element in the periodic table is fluorine.
II. The normal physical state of the halogens goes from a solid to a gaseous state as you go down the family.
III. The halogen elements become ions by filling the outermost <i>d</i> orbital.
A. I only
B. II only
C. I and II
D. II and III
E. I and III

14. Which of the following properties are attributed to most metals?

I. They are conductors of heat and electricity.

II. They are malleable and ductile.

III. They are all solids at room temperature.

A. I only

B. II only

C. I and II

D. I and III

E. I, II, and III

SET-2

1. Compounds that have the same composition but differ in their structural formulas

A. are used for substitution products

B. are called isomers

C. are called polymers

D. have the same properties

E. are usually alkanes

2. Ethene is the first member of the

A. alkane series

B. saturated hydrocarbons

C. alkyne series

D. unsaturated hydrocarbons

E. aromatic hydrocarbons

3. Which organic structure is ethylamine?

A. CH₃-CH₂-CH₃

D.
$$CH_3 - C - CH_3$$

- 4. Which organic structure is methyl propyl ether (methoxypropane)?
- A. CH₃-CH₂-CH₃

C. CH₃-O-C₃H₇

D.
$$CH_3 - C - CH_3$$

- 5. Which organic structure is propane?
- A. CH₃-CH₂-CH₃

C. CH₃-O-C₃H₇

D.
$$CH_3 - C - CH_3$$

E.
$$(E)$$
 CH_3-CH_2-N H

- 6. Which organic structure is ethanoic acid?
- A. CH₃-CH₂-CH₃

$$_{\text{E.}}$$
 (E) $_{\text{CH}_3-\text{CH}_2-\text{N}}$ $_{\text{H}}^{\text{H}}$

7. Which organic structure is propanone?

A. CH₃-CH₂-CH₃

C. CH₃-O-C₃H₇

8. Which structure contains an organic acid functional group?

A. CH₃-CH₂-CH₃

C. CH₃-O-C₃H₇

9. Which structure contains a ketone grouping?

A. CH₃-CH₂-CH₃

E. (E)
$$CH_9-CH_2-N$$
 H

10. Which structure contains an amine group?

A. CH₃-CH₂-CH₃

E. (E)
$$CH_3-CH_2-N$$
 H