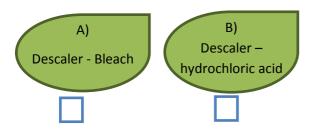
### ACIDS AND DETERGENTS

### 1. Which substances are dangerous to mix?



#### 2. Which ones contain acid?

A: Caustic soda; B: hydrochloric acid; C: lemon; D: soap, E: descaler

### 3. Indicate if the statement is true or false. T/F.

- A: Acids don't react with base.....
  - B: We have to drink much fizzy drinks.....
  - C: Acids contain more H<sup>+</sup> ion, than OH<sup>-</sup> ion.....
  - D: Acids were just discovered.....
  - E: The pH value of acids is bigger than 7 ......
  - F: Acids don't react with gold.....
  - G: We must be careful while working with acids.....

C)
Solid soap – liquid
soap

D) Hydrochloric acid	١
- bleach	

## 4. Write the common names of the following acids.

A: HCl
B: H<sub>2</sub>SO<sub>4</sub>
C: HNO<sub>3</sub>
D: CH<sub>3</sub>COOH
E: HCOOH

## 5. Which of the following metals don't react with acids?

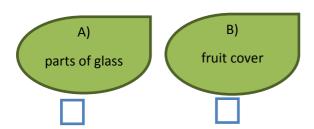
A: sodium

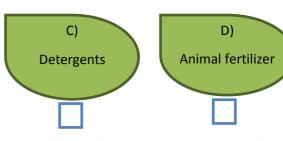
B: potassium

C:Lithium

D: Platinum

### 6. Which of the following materials is most harmful for the soil?





#### 7. Indicate if the statement is true or false. T/F.

- A: We should frequently use detergents. ....
- B: Detergents do not present a risk to health ....
- C: Detergents are efficient in hard water ....
- D: Detergents give less harm to environment than soaps ....
- E: Detergents are surface active agents. ......
- F: Soaps are more efficient than detergents .....
- G: Soap should be used for environmental health.
- H: Detergent is a petroleum product
- I: Soap and detergent are water soluble because they are polar.

# 3. Which of the followings are true for the detergents?

- A: They are natural substances
- B: They are efficient in hard water;
- C: They are harmful for the environment;
- D: They are soaps
- E: They are strong acids



### **Solution**

- 1- Descaler Bleach / Hydrochloric acid bleach
- 2- Hydrochloric acid, lemon, descaler

3-

A)	B)	C)	D)	E)	F)	G)
F	F	T	F	F	Т	T

4-

A)	B)	C)	D)	E)	
Hydrochloric acid	Sulphurioc acid	Nitric Acid	Vinegar	Formic acid	

- 5- D
- 6. detergents

7.

A	) B)	C)	D)	E)	F)	G)	H)	I)
F	F	Т	F	Т	F	T	T	T

8. B, C