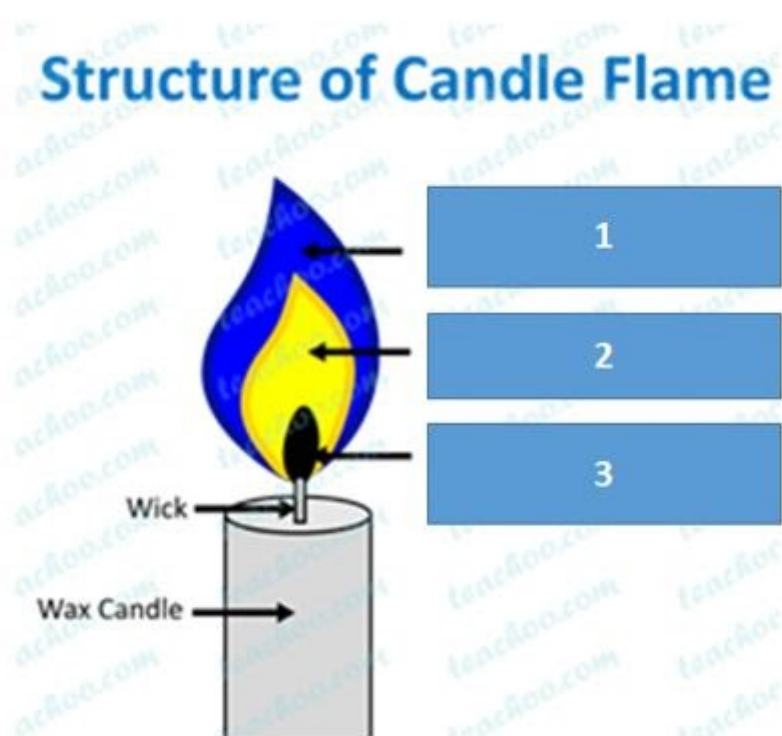


# DELHI PUBLIC SCHOOL, MIYAPUR

## Chemistry

Roshni has studied the different zones of candle flames. Please answer the following questions based on the picture shown below (question number 9 and 10).



9. The zones to be mentioned in box 1, 2 and 3 are \_\_\_\_\_.

- ☐ A) 1-luminous, 2-non luminous 3- dark
- ☒ B) 1-non-luminous, 2-luminous, 3-dark
- ☐ C) 1-dark 2-luminous, 3-non luminous
- ☐ D) 1-dark 2-non-luminous, 3-luminous

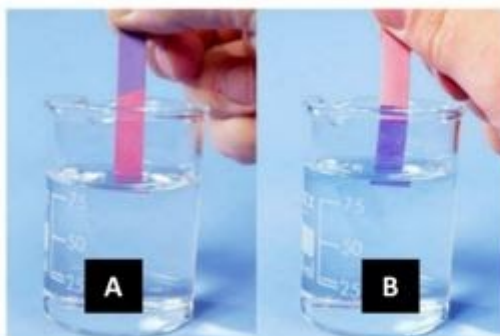
Clear selection

10. Which of the following options mentioned about the zone to be named in Box-3 is NOT correct?

- ☒ A) It is named as a zone of low-combustion.
- ☐ B) The flame in this zone appears greyish-black
- ☐ C) It does not receive oxygen from air
- ☐ D) It is the least hot zone

Clear selection

11. Rehan has taken two beakers A and B. He wants to test the chemical nature of the solutions. Roshni has given him a strip which changes its colour to RED when dipped in beaker A and BLUE when dipped in beaker B.



**Identify the chemical nature of the solutions.**

- ☒ A) Beaker A is acid, Beaker B is Base.
- ☐ B) Beaker A is base, Beaker B is Acid.
- ☐ C) Beaker A is a strong acid, Beaker B is weak acid
- ☐ D) Beaker A is a strong base, beaker B is weak Base.

Clear selection



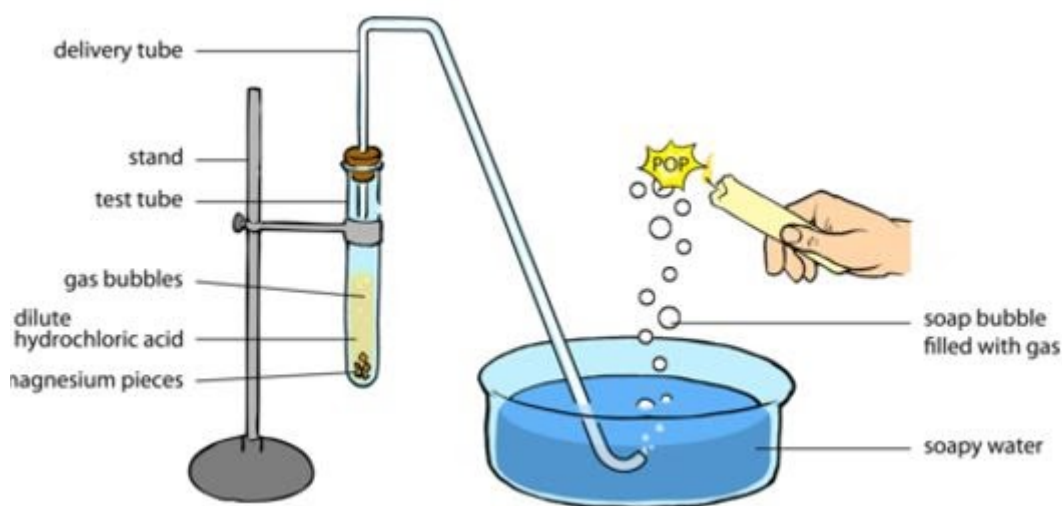
12. Aluminium (Al) cookers are anodised from inside so that in the presence of air and water .....is formed as a protective layer, which prevents further oxidation of aluminium. Select the correct option to fill in the blank.

- A)  $\text{AlO}$
- B)  $\text{Al}_2\text{O}_3$
- C)  $\text{Al}(\text{OH})_3$
- D)  $\text{Al}(\text{OH})_2$

- ☐ a. Option A
- ☒ b. Option B
- ☐ c. Option C
- ☐ d. Option D

Clear selection

13. Roshni has performed a small experiment as shown below, identify the gas filled in the soap bubble.



- ☐ A) Oxygen
- ☐ B) Nitrogen
- ☒ C) Hydrogen
- ☐ D) Sulphur dioxide

Clear selection



14. Duralumin, its composition and heat treatment, was openly published in the German scientific literature before World War I. John has discovered a plate of the aircraft USS Akron, which was a helium-filled rigid airship of the U.S. Navy. Can you help John to identify its constituents that help Duralumin to have a strong core, and to be corrosion resistant?



- ☐ A) Aluminium, Nickel, zinc
- ☐ B) Aluminium, tin, lead
- ☐ C) Aluminium, copper, manganese, magnesium
- ☒ D) Aluminium, nickel, cobalt

Clear selection



15. Rohan has studied the below mentioned chart on ignition temperature, based on the chart please identify the sequence of material which has a higher possibility of catching fire.

| Material | Ignition temperature |
|----------|----------------------|
| Petrol   | 246 degree C         |
| Diesel   | 210 degree C         |
| Paper    | 233 degree C         |
| Coal     | 454 degree C         |
| Wood     | 300 degree C         |

- ☐ A) Petrol > Diesel > Paper > Coal > Wood
- ☒ B) Diesel > Paper > Petrol > Wood > Coal
- ☐ C) Diesel > Petrol > Paper > Wood > Coal
- ☐ D) Coal > Wood > Petrol > Paper > Diesel

Clear selection

16. X is a combustible substance, Y is non-combustible substance, Z is non-supporter of combustion. Identify the correct combination of X, Y and Z.

- ☒ A) X=CNG, Y=Glass, Z=Nitrogen
- ☐ B) X=Glass, Y=CNG, Z=Nitrogen
- ☐ C) X=CNG, Y =Nitrogen , Z= Glass
- ☐ D) X=Nitrogen, Y =CNG , Z= Glass

Clear selection

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