



# CHEMISTRY

## BOOKS - SAI CHEMISTRY (TELUGU ENGLISH)

### HYDROGEN AND ITS COMPOUNDS

Mcq

1. Which of the following methods is used for the removal of temporary hardness of water?

A. Treatment with washing soda

B. Calgon method

C. Ion-exchange method

D. Clark's method

**Answer: d**



**Watch Video Solution**

2. Which one of the following is not a method to remove permanent hardness of water

A. Clark's method

B. Calgon method

C. Ion-exchange method

D. Synthetic resins method

**Answer: a**



**Watch Video Solution**

**3.** Temporary hardness of water is removed in Clark's process by adding

A. Caustic soda

B. Calgon

C. Borax

D. Lime

**Answer: d**



**Watch Video Solution**

**4. Observe the following statements**

(a)1. Heavy water is harmful for the growth of animals.

2. Heavy water reacts with AlC, and forms deuterated acetylene.

3. BaCl<sub>2</sub>D<sub>2</sub>O is an example of interstitial deuterate.

The correct statement.

A. 1 and 3

B. 1 and 2

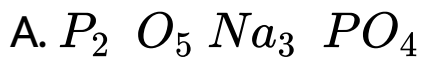
C. 1, 2 and 3

D. 2 and 3

**Answer: a**



5. The product(s) formed when  $H_2 O_2$  reacts with disodium hydrogen phosphate is



**Answer: b**



6. Which property among the following is same for both hydrogen and deuterium molecules?

A. Bond energy

B. Melting point

C. Boiling point

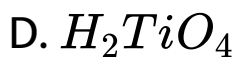
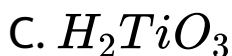
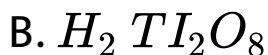
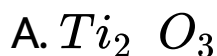
D. Bond length

**Answer: d**



**Watch Video Solution**

7. The orange coloured compound formed when  $H_2 O_2$  is added to  $TiO_2$  solution acidified with conc  $H_2 SO_4$  is



**Answer: d**





8. How many mL of perhydrol is required to produce sufficient oxygen which can be used to completely convert 2 L of  $SO_2$  gas to  $SO_3$  gas?

A. 10ml

B. 5ml

C. 20ml

D. 30ml

**Answer: a**



**Watch Video Solution**