SAINIK SCHOOL GOPALGANJ ASSIGNMENTS

CHAPTER-Hydrogen

CLASS-XI

1. Electrolysis of brine produces

- a. chlorine gas
- b. hydrogen gas
- c. sodium hydroxide
- d. all the above

2. A reactant containing the element that is oxidised is called

- a. reducing agent
- b. oxidising agent
- c. hydrogen
- d. sublime

3. By losing one or two electrons the atoms of metal are

- a. oxidised
- b. reduced
- c. hydrogenated
- d. sublimated

4. Electrolytes conduct electricity in

- a. solid state
- b. liquid state
- c. gaseous state
- d. plasma state

5. Loss of hydrogen atoms by an element is called

- a. hydrogenation
- b. oxidation
- c. reduction
- d. sublimation
- 6. The electrolyte among the following is
 - a. NaOH
 - b. Urea
 - c. glucose

d. benzene

7. O-O-H bond angle in H2O2 is

- a. 97°
- b. 106°
- c. 120°
- d. 109°28'

8. Which of the following is very high for proton?

- a. radius
- b. ionization potential
- c. charge
- d. hydration energy

9. The list which contains only elements is

- a. air, water, oxygen
- b. hydrogen, oxygen, brass
- c. air, water, fire, earth
- d. calcium, sulphur, carbon

10. The smallest part of an element that cannot exist as a free state is

- a. ion
- b. charge
- c. atom
- d. molecule

a. <u>VSA type</u>

- b. 11. What is the reason for the appearance of temporary hardness of water?
- c. 12. Name a method to remove the temporary hardness of water.
- d. 13. What are the salts responsible for the permanent hardness of water?
- e. 14. Give an example of ionic hydride.
- f. 15. Which isotope of hydrogen is radioactive ?
- g. <u>SA type</u>
- h. 16. Justify the p[osition of hydrogen in the periodic table on the basis of electronic
- i. Configuration.
- j. 17. Why does water have a higher boiling point than that of H_2S ?
- k. 18. Hydrogen peroxide is use to restore the colour of old oil- paintings containing
- I. Lead oxide .Write a balanced equation for the reaction that takes place in this process.
- m. 19. How is the strength of hydrogen peroxide expressed?

n. 20. Explain with the help of examples as to which property of H_2O_2 is responsible for its bleaching action.