

Chemistry



9th Class

Sindh Board Notes

Chapter # 11

Hydrogen



Fill In Blanks

پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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➔ HYDROGEN

1. Natural hydrogen contains 0.0156 percent deuterium.
2. Nascent hydrogen is more reactive than molecular hydrogen.
3. Tritium is an isotope of hydrogen, its mass number is 3.
4. Natural hydrogen is a mixture of three isotopes namely protium deuterium and tritium.
5. The bond energy of H_2 is 104 K.cal/mole.
6. Ice floats over water because ice is less dense than water.
7. The sterilization or disinfection of water is done by chlorination to destroy bacteria and pathogenic organisms.
8. Water molecules are associated together by means of hydrogen bonding.
9. Water is called as a universal solvent.
10. Cavendish discovered hydrogen in 1766 by the action of zinc metal over dilute HCl.
11. Lavoiser gave the name hydrogen to this gas.
12. In Greek language Hydrogen means water and genan means producer. Hydrogen means water producer.
13. Hydrogen is the lightest element known.
14. Hydrogen is the first element in the periodic table.
15. Hydrogen contains one proton in nucleus with one electron in the first orbit.
16. Atomic number of hydrogen is 1.
17. It exists as diatomic molecular gas (H_2).

18. Its molecular mass is 2.016 a.m.u.
19. Hydrogen is the nuclear fuel consumed by the sun and stars.
20. Sun and other stars are largely composed of hydrogen.
21. Hydrogen is the nuclear fuel consumed the sun and stars.
22. 70% of the universe is composed of hydrogen if constitutes only 0.89% of earth's mass.
23. In the earth crust, hydrogen is the 9th most abundant element.
24. In water 11.11% by mass is hydrogen.
25. Water gas is a mixture of carbon monoxide and hydrogen.
26. Water gas is a very good fuel.
27. From water gas H₂ gas is separated by two methods by liquefaction and by oxidation.
28. H₂ gas can be produced by the electrolysis of water in the presence of few drops of acid or base.
29. Hydrogen is a colourless, odourless and tasteless gas.
30. Hydrogen is insoluble in water.
31. It is highly inflammable and burns with blue flame.
32. It liquefies at -252°C. It freezes at -252°C.
33. The addition of hydrogen into molecular compounds is called hydrogenation reaction.
34. Hydrogen is used in the formation of hydrogen torch used in cutting and welding at 4000°C.
35. Hydrogen at the time of its birth is chemically more reactive than molecular hydrogen and is known as nascent hydrogen.

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9th Class

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