

Board – CBSE**Class – 11th****Topic – Hydrogen**

1. Name the isotopes of hydrogen.
2. What is coal gasification?
3. Give the laboratory method of preparation of hydrogen
4. Give the commercial method of preparation of dihydrogen.
5. What is water – gas shift reaction?
6. How methanol is prepared using dihydrogen?
7. How ammonia is prepared using dihydrogen?
8. Name the categories into which hydrides are categorized.
9. Give an example of each of an ionic hydride and a covalent hydride.
10. What happens when water is added to calcium hydride?
11. Give a reaction in which water acts as an oxidizing agent.
12. What happens when H_2O_2 reacts with ethylene?
13. What happens when BaO_2 is treated with phosphoric acid?
14. How can the production of dihydrogen obtained from 'coal gasification be increased'?
15. What happens when sodium hydride reacts with water?
16. How does H^+ ion forms hydronium ion (OH_3^+) in water?
17. Show with reaction the amphoteric nature of water.
18. Why does hard water not form lather with soap?
19. Why is hydrogen peroxide stored in wax-lined glass or plastic vessels in dark?
20. What is the volume strength of 2M H_2O_2 ?