Planet smart Tutorials

GRADE 8 CHEMISTRY MARKS: 35

ICSE CHAPTER OXYGEN TIME: 1 HOUR

1. Oxygen is prepared in the laboratory from i) hydrogen peroxide ii) potassium chlorate [6]
2. Draw a neat labeled diagram for each of the above methods used in preparation
3. Give a balanced equation for each of the above methods
4. Name the catalyst used in each of the above methods for the laboratory preparation
5. Define a catalyst. Describe a simple experiment to show that the catalyst manganese dioxide does not undergo any change: a) chemically b) in mass – when used in the laboratory preparation of oxygen from potassium chlorate. [4]
6. Oxygen is manufactured from fractional distillation of liquid air [4]
7. State the main components of air. How is the air freed from CO2 and dust particles?
8. How is the air liquefied? What are the two main components of liquid air.
9. Starting from acidified water, how is oxygen manufactured from it. [2]
10. Give balanced equation for the following conversions using oxygen [5]
11. Carbon to carbon dioxide
12. Iron to magnetic oxide to iron
13. Sodium to sodium hydroxide
14. Phosphorus to phosphoric acid
15. Magnesium to magnesium hydroxide
16. Fill in the blanks: [6]
17. A catalyst is a substance which \_\_\_\_\_\_\_\_\_\_\_\_ the rate of the reaction without itself undergoing any change.
18. Separation of liquid N2 from liquid O2 is done by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. Calcium burns in oxygen with a \_\_\_\_\_\_\_\_\_\_\_ flame.
20. Give reasons for the following: [4]
21. Oxygen is collected by the downward displacement of water and not over air.
22. Fishes can survive in tap water but not in jar of freshly boiled distilled water.
23. Select the correct word to complete the following sentences: [4]
24. Oxygen is a/an *acidic/basic/neutral* gas which supports/does not support combustion.
25. The boiling point of liquid oxygen is *-156 C/-196 C/-183 C*.
26. On passage of an electric current through *distilled/acidified* water, *hydrogen/oxygen* is formed at the cathode.