

General Science Notes for IAS and PCS

Chemistry-set-1	
1. Water gas – $\text{CO} + \text{H}_2$	
2. Producer gas – $\text{CO} + \text{N}_2$	
3. Coal gas – $\text{H}_2 + \text{CH}_4 + \text{Ethyle} + \text{N}_2$	
4. Natural gas – Methane + Ethane	
5. LPG – Butane + Propane $\rightarrow$ (Methyl Mercaptar)	
6. CNG – Methane + CH_4	
7. Biogas – $\text{CH}_4 + \text{CO}_2 + \text{H}_2 + \text{N}_2\text{O}$	
8. Amalgam – Mercury	
9. Solder – Tin + Lead	
10. Dutch Metal – Copper/ Rollen gold	
11. Gun Powder – $\text{KHNO}_3 + \text{C} + \text{S}$	
12. Solder – Tin + Lead	
13. Rollen Gold – Copper	
14. German Silver – Copper [No silver]	
15. Brass – $\text{Zn} + \text{Cu}$ Bronze – $\text{Cu} + \text{Tin}$	
16. Steel – $\text{Fe} + \text{C}$	
17. Stainless steel – $\text{Fe} + \text{C} + \text{Ni} + \text{Cr}$	
18. Alnico – Permanent Magnet	
19. Iron Pyrite – FeS_2 – Fool gold	
20. Fuse wire – Tin + Lead (high resistance, Melting Point law)	
21. Onion and Garlic Smell due to – Potassium	
22. Cobalt – 60 is used in – Treatment of Cancer	
23. Radium is extract from – Pitch blende	
24. Pearl ash – Potassium carbonate (K_2CO_3)	
25. Nichrome wire is used in – Heater, Melting point high	
26. Zinc phosphate – is used to kill rat	
27. Aqua solution – $\text{HNO}_3 + \text{HCl} = 1 : 3$	
28. Iodine is used in – Antiseptic	
29. Absolute Alcohol called – 100% ethanol	
30. Strategical metal – Tin	