



19MEB203 - THERMAL ENGINEERING

UNIT 1-Fuels & Combustion

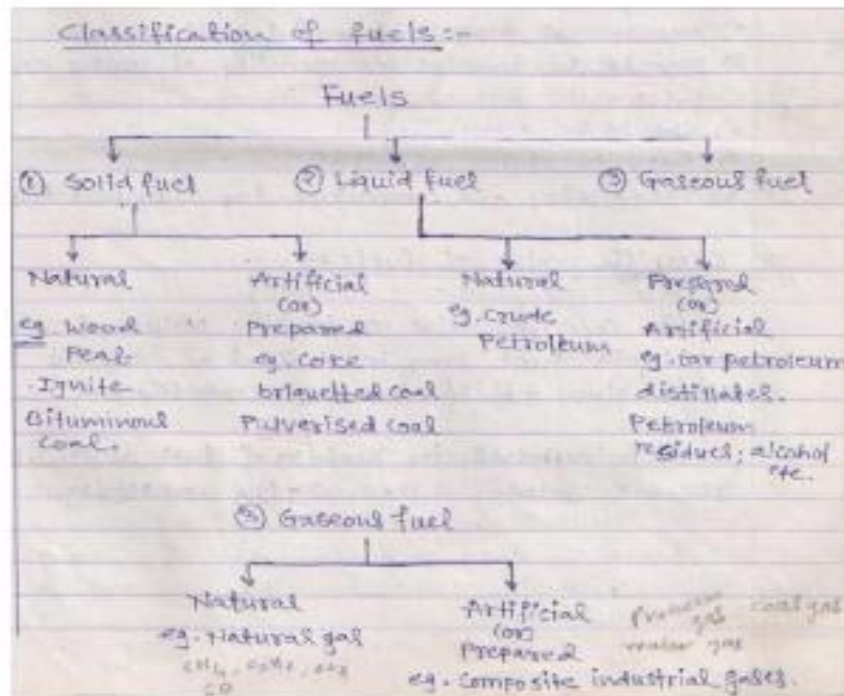
Fuels Types

Fuel :

A fuel is defined as a substance (containing mostly carbon and hydrogen) which on burning with oxygen in atmospheric air, produces a large amount of heat.

The amount of heat generated is known as calorific value of the fuel.

> Classification of Fuels :



> Requirement of good fuel :

A good fuel should have;

- 1) Low ignition point.
- 2) High calorific value.
- 3) Freely burn with high efficiency.
- 4) Should not produce harmful gases.
- 5) Should be produce less quantity of smoke and gases.
- 6) Should be economical.
- 7) Easy to store.
- 8) Easy, safe and convenient for transportation.