

Q1 Apparatus

a). Burn rate measurement in solid rocket

- Crawford Bomb
- Pressure transducer
- DC Supply
- Pressure Gauge
- Pressure regulator
- Electrodes
- Propellant
- Propellant holder.
- Heat exchanger
- DAS (Data Acquisition system)

b) Ramjet

- Ramjet model
- Sequential timer
- Rotameter
- Pressure Gauge
- Air compressor
- Ignitor battery
- Data Acquisition system.

c) • Propellar + piston engine

- slider mechanism
- Engine
- Thrust load cell
- Fuel weight load cell.
- D.A.S.
- motors circuits
- PC.

d) Hybrid Rocket

- oxidizer
- valve control
- pressure transducer and indicator
- settling chamber
- hybrid rocket
- Ignitor cable / battery

e) Diffusion flame height

- bunsen burner
- fuel
- Rotameter
- Needle valve
- height measurement device