

## Question: Principle of Turbo-prop:-

In this system, the gases are partly expanded in turbine and partly in nozzle which means about 80% expansion of gases take place in turbine and 20% expansion takes place in nozzle.

## Working:-

- ① The turbine develops power to run the compressor and parallel.
- ② The parallel and jet produced by the nozzle give forward motion to the air craft.
- ③ By using diffuser before the condenser compression, overall efficiency of the turbo-prop is improved.

Ram jet is the simplest of jet engines having no moving parts. It is a typically shaped duct open at both ends with air being compressed merely due to forward motion of engine.