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Explain the principle of Ram jet with neat sketch

**Question:**

Explain the principle of Ram jet with neat sketch

**Answer:**

Ram jet – (Fig – 2 marks ; explanation –2 marks) - Ram jet is also called as 'Athodyd or flying stove pipe'. - It is a steady combustion or continuous flow engine & has the simplest construction of any propulsion engine. - Consist of inlet diffuser, combustion chamber & exit nozzle. - Air entering into ram jet with supersonic speed is slowed down to sonic speed in supersonic diffuser, increasing air pressure. - The air pressure is further increased in the subsonic diffuser. - The fuel injected into the combustion chamber is burned with the help of flame stabilizers. The high temp & high pressure gases are passed through the nozzle converting the pressure energy into kinetic energy. - It is not self operating at zero flight velocity. It requires launching rockets.

