

SECTIONS

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Q. no 2)

Ans:

Working principle of MHD generator.

(1) In MHD power generation, a process is developed where for days a flow of electrically conductive medium, which acts as a conductor or co-conductor and the magnetic field more related to each other a voltage is induced in the conductor.

(2) The conductor may be solid, liquid, gas.

(3) The solid conductor, solid conductor or replaced by hot ionized gas.

(4) The hot ionized gas (5000°C) is passed through the MHD duct across which a strong magnetic field is applied.

(5) Since the gas or hot ionized medium is electrically conducting medium moving in a magnetic field, thus a voltage is generated.

(6) The power generated by MHD generator is in the direct current form

(7) Note if the electrode and plasma is a suitable material then generated current can be extracted

