



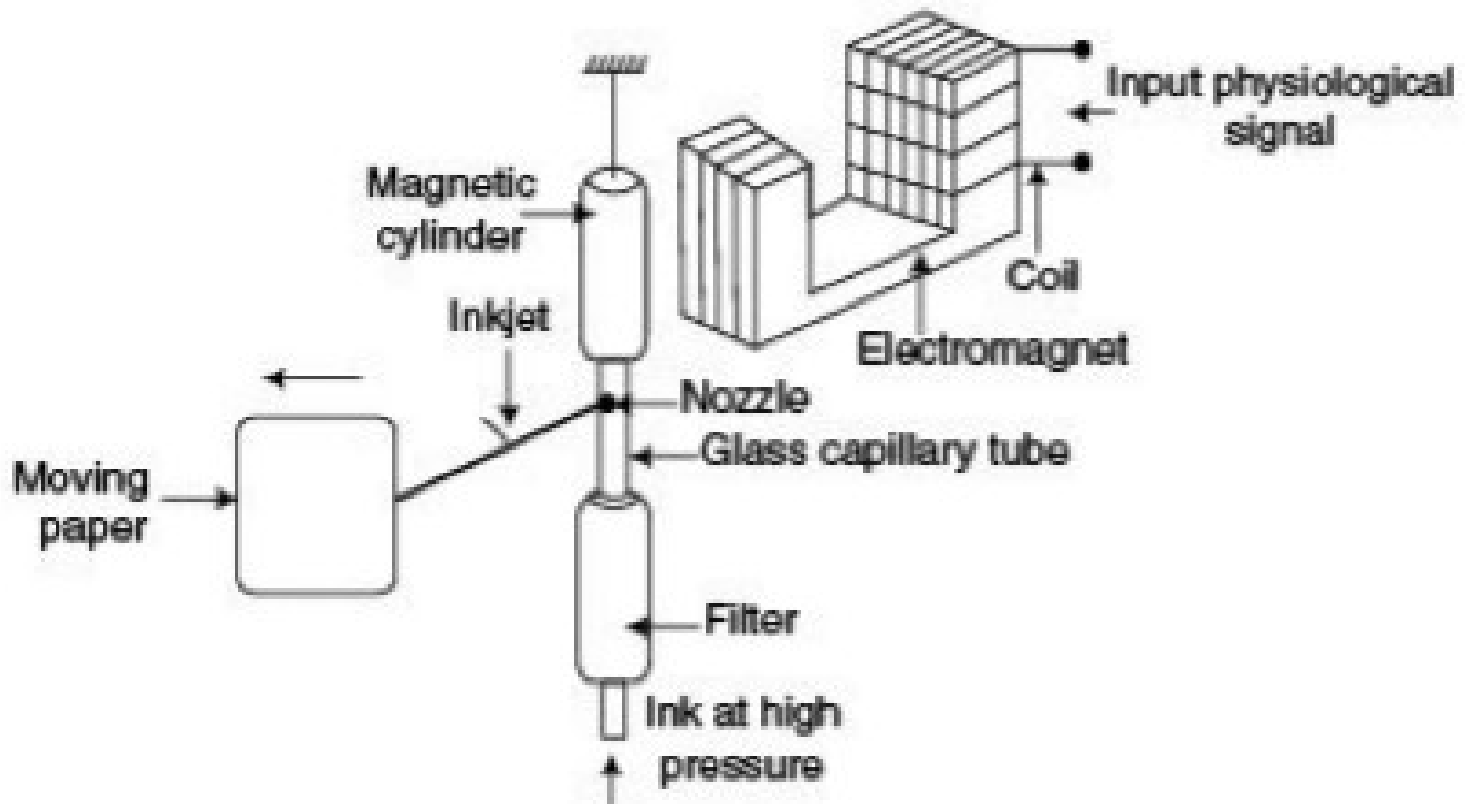
# UNIT – 2

# SIGNAL RECORDERS

Inkjet Recorder

# Inkjet Recorder

- The principle of working of Inkjet recorder is that a very fine Inkjet is made to move on the paper per the physiological events or signals.



- The recorder has a glass capillary tube placed between the poles of an electromagnet.
- The coil of the electromagnet is connected to the amplified physiological signals.
- The variation of current corresponding to physiological signals in the electromagnetic coil produce a varying magnetic field in it which interacts with the field of the cylindrical magnet attached to the capillary.
- The interaction of the magnetic field deflects the cylindrical magnet and the capillary tube attached with it as per the strength of the physiological signals.

- The capillary tube is supplied with ink at high pressure, and the ink comes out of the nozzle provided on the capillary tube in the form of a jet.
- The waveform is traced on the paper.
- Using more capillaries of different colours, the inkjet recorder can work as a multichannel recorder. The inkjet uses normal paper.
- As it does not have any stylus it can work at much high frequencies.