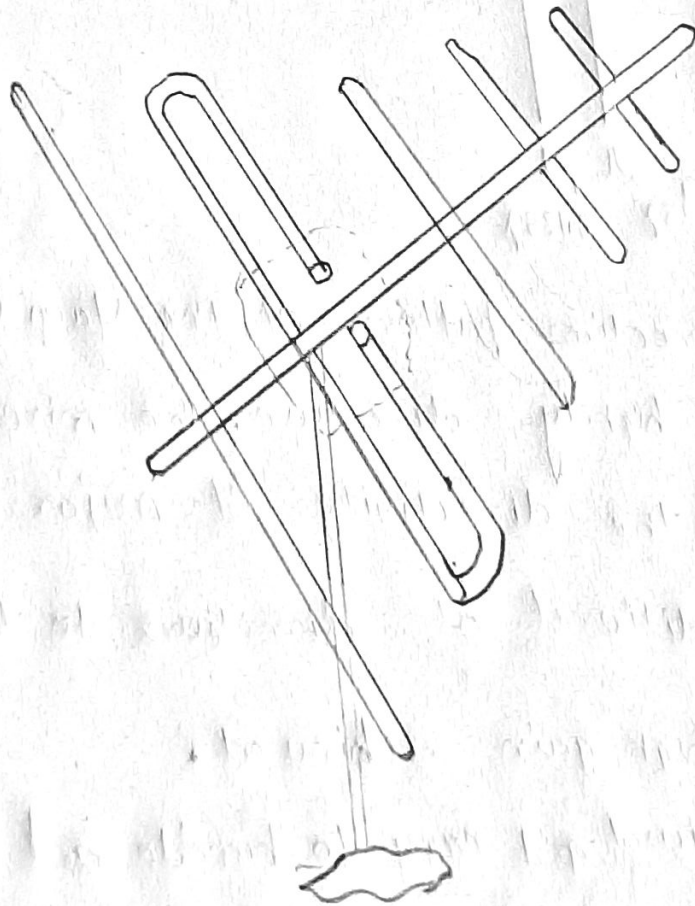


Section - 5

Question(2) - With a neat sketch explain the construction and working of Yagi UDA Antenna.

Answer :- Yagi UDA Antenna :- Yagi UDA Antenna is most commonly used antenna for TV reception over the last few decades.
frequency range :- the frequency range in which the UDA antennas operate is around 30MHz.

Construction of Yagi UDA Antenna :- A Yagi UDA antenna is usually seen

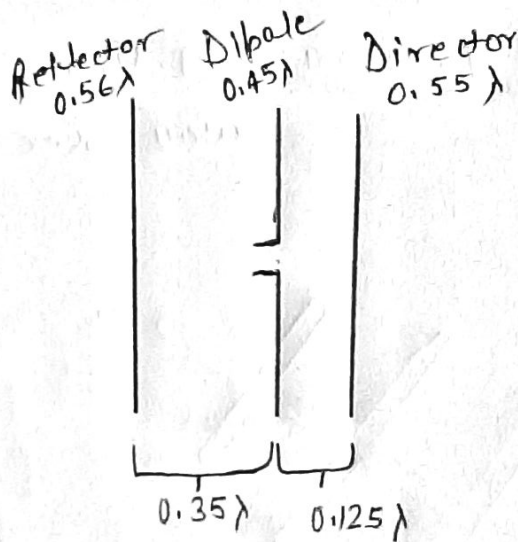


Almost every house during the
the parasitic elements and the driver

This Yagi UDA Antenna.

The previous page figure is showing Yagi UDA antenna.

Designing :- For this Antenna to be designed the following design specifications should be followed -



Working :- The direction pattern of the Yagi UDA Antenna is highly directive. The minor lobes are suppressed and the directivity of major lobe is increased by the additional of directors to the antenna.

Yagi Uda antenna is high gain achieved.

- high directivity is achieved and easy to handle and maintenance
- less amount of power needed and broader lower frequency.

Disadvantages - Prone to Noise -

Prone to atmospheric effects.

Applications :- Mostly Used for TV Reception.