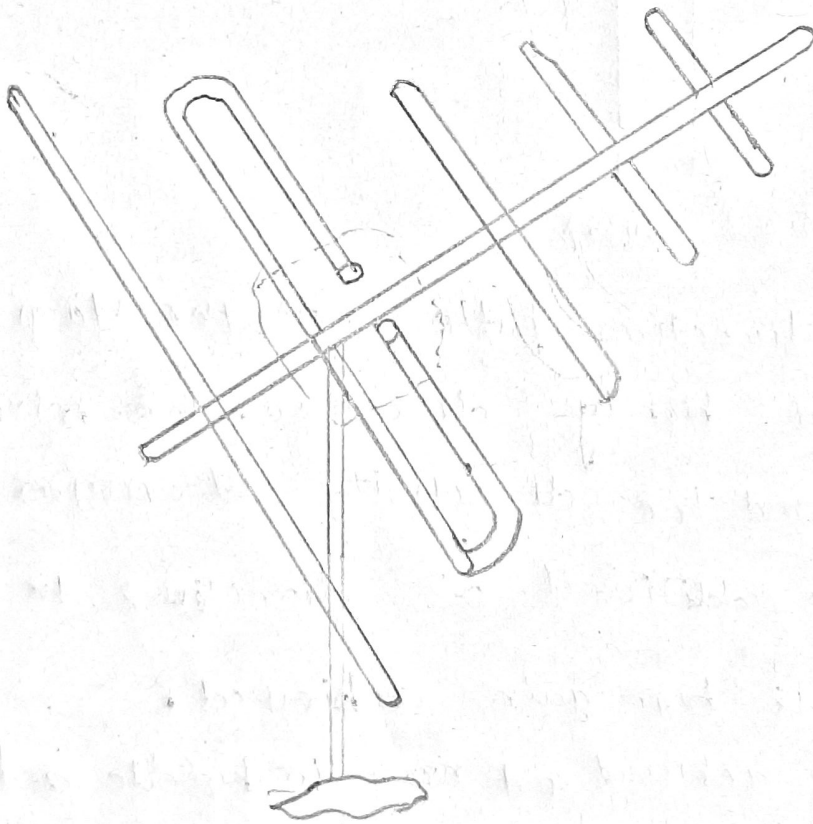


Section - 5

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 type of antenna for TV Reception over the last few decades.
frequency Range :- The frequency Range in which the Yagi UDA antennas operate is around 30MHz to 36MHz .

Construction of Yagi UDA Antenna :- A Yagi UDA Antenna was seen on top of

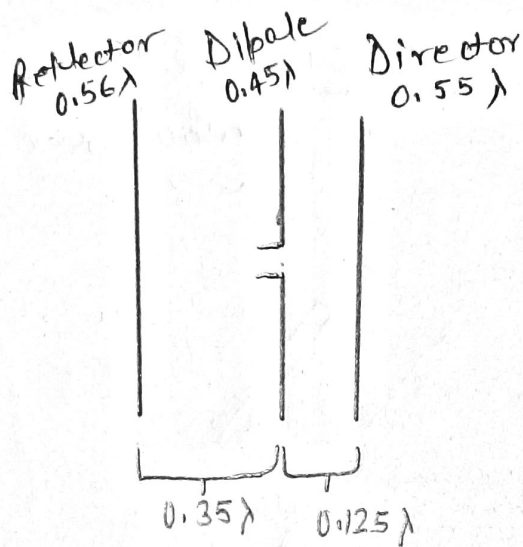


Almost every house during the past decades.
The elements and the dipole together form

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 wasted and broader lower frequency.

Disadvantages - prone to Noise.

• susceptible to electromagnetic effects.

• Used for TV Reception.



Samsung Triple Camera

Shot by @ameer