

Question. 6

Ans

Solar flat solar collectors, A flat plate collector is a large shallow box typically mounted on a roof that heats water using the sun energy. Sunlight pass through the glazing and absorber and absorber plate which heats up changing solar energy into heat energy.

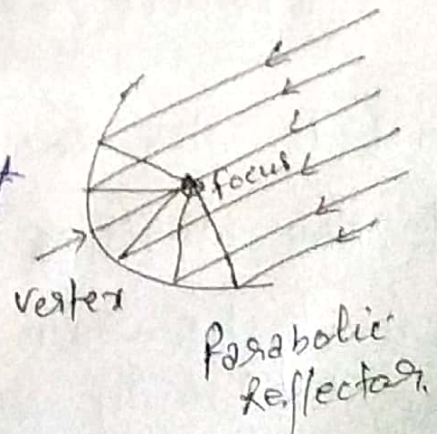
there are various type of solar collector.

1. Parabolic trough collector
2. mirror strip reflector
3. Fresnel lens collector
4. Compound parabolic concentrator

1) Parabolic trough collector →

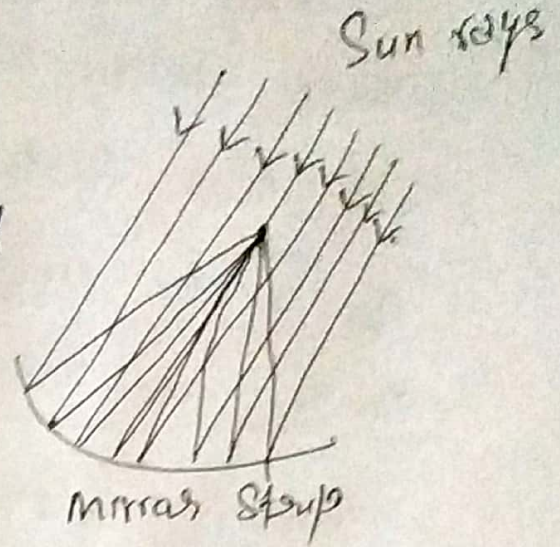
The parabolic trough collector

is the solar radiation fall into the one point at focus point this is mostly on makeed by the cylindrical parabolic



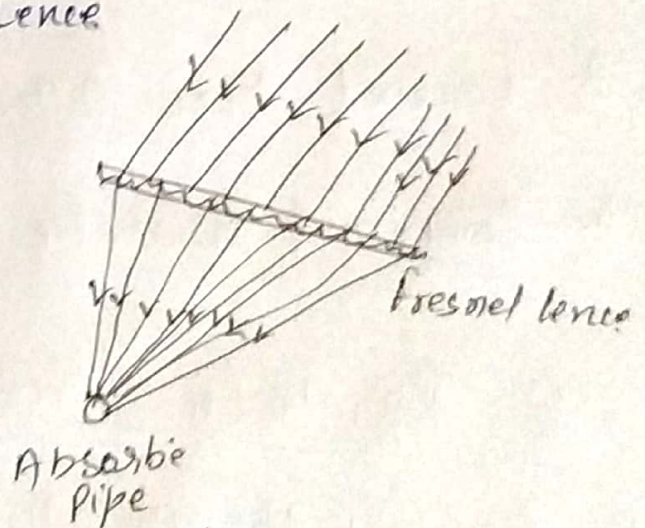
2) Mirror Strip Reflector \Rightarrow This system is used in a pipe

for the rotates it so the reflect rays by the absorber focused on a one point and changes in Sun's elevation.



3) Fresnel lens Collector

For this collector, the solar radiation fall to normal lence are refered by the lence and focused on the tube which show in fig.



4. Compound Parabolic Concentrator

This is also second name is Winston collector

It has working with high concentration ratio there is no need. Working in this used

