

(Question-4 section-1)

Answers

- ⇒ A typical flat-plate-collector is a metal box with a glass or plastic cover (called glazing) on top and a dark-colored absorber plate on the bottom. The sides and bottom of the collector are usually insulated to minimize heat loss.
- ⇒ Sunlight passes through the glazing and strikes the absorber plate, which heats up, changing solar energy into heat energy. The heat is transferred to liquid passing through pipes attached to the absorber plate. Absorber plates are commonly painted with selective coatings which absorb and retain heat better than ordinary black paint. Absorber plate usually made up of metal typically aluminium or copper because metal is a good conductor of heat.