

4/11/2020
WEDNESDAY

PHYSICS

STD - 8
class - 27

Assignment

1) In which line are the switches and fuses connected?

Ans) Live line or Phase line

2) What are the specialities observed by you in connecting devices in a household circuit?

Ans) * fuses, circuit breaker and ground fault, circuit interrupter are the safety devices in a household circuit.

* devices are connected in parallel.

* fuses and circuit breaker are the connection point between individual houses.

* Before any short circuit the fuse help to shutdown the electrical supply between home appliances.

3) Give reasons for connecting devices in parallel.

Ans) * Devices work according to the marked power.

* Devices can be controlled using switches as per need.

* same voltage will be obtained for each device.

* current can be varied according to load used.

* Effective resistance of the circuit is reduced.

4) What are the differences between MCB and an electric fuse?

Ans)

MCB

- It breaks the circuit.
- A little time is taken.
- can be reset.

Electric fuse

- It melts and breaks the circuit when excess current passes.
- Quick action.
- when fuse melts it should be replaced.

5) What is the advantage of MCB over an electric fuse?

Ans)

MCB	Fuse
More sensitive to current	Not more sensitive
Automatically switches off	Fuse wire melts
can be reused	replaced