Answer on Question 52260, Physics, Other

1. The skin's resistance to the flow of electric current for dry skin is about:

a) 1000Ω

b) 500Ω

c) 700Ω

d) 200Ω

Answer:

The resistance of dry skin is usually between $1000\Omega - 100000\Omega$, depending on contact area, moisture and condition of the skin. So, the correct answer is **a) $\mathbf{1000\Omega}$**.

2. The first thing to do to help a person suffering from electric shock is to

a) apply firs aid

b) read the current value from the metre

c) switch off the source of the current

d) call the doctor

Answer:

The first step is to separate the person from the source of the current as quickly as possible. The best way of doing this is to turn off the supply, for example, by unplugging the appliance or by turning the mains off at the fusebox.

Thus, the correct answer is **c) switch off the source of the current**.

3. Some of the possible causes of electrical mishap include the following except:

a) improper choice of fuse

b) broken fuse wire

c) damaged the earthing system

d) improper wiring

Answer:

There are possible causes of electrical mishap: improper choice of fuse, damaged the earthing system, improper wiring. So, the answer is **b) broken fuse wire**.

4. In the wiring of a plug, the green flex is connected to

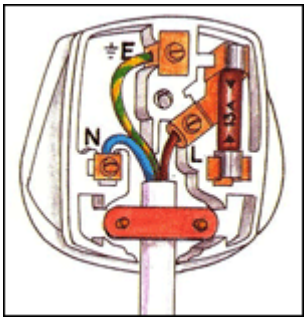
a) live

b) earth

c) source

d) neutral

Answer:



In the wiring of a plug, the green flex is connected to **earth terminal (marked E)**, blue wire is connected to neutral terminal (marked N), brown wire is connected to live terminal (marked L). So, the correct answer is **b) earth**.

5. A fuse is provided in an electrical circuit to

a) insulate the circuit

b) prevent electrical shock

c) isolate appliances from excessive current

d) provide earthing protection

Answer:

A fuse is provided in an electrical circuit to **c) isolate appliances from excessive current**.