Answer on Question #52275-Physics-Other

Which of the following cables is suitable for connecting a 1.8 kW appliance to a 240V mains

10 A cable

5 A cable

2 A cable

1 A cable

Solution

$$I = \frac{1.8\ kW}{240V} = 7.5A.$$

So, 10 A cable is suitable for connecting a 1.8 kW appliance to a 240V mains.

Answer: 10 A cable.

16 Which of the following may not be classified as a source of electrical fire?

loose contact in electric circuits

inappropriate rating of cables used for connection

improper wiring

broken fuse wire

Answer: broken fuse wire.

17 Which of the following is NOT correct?

conductance of a piece of conductor is directly proportional to its cross-sectional area

resistence of a piece of conductor is directly proportional to its length

the heat developed when current flows in a piece of conductor is inversly proportional to its cross-sectional area

the heat developed when current flows in a piece of conductor is directly proportional to its cross-sectional area

Answer: the heat developed when current flows in a piece of conductor is directly proportional to its cross-sectional area.

18 A safe conduct which is necessary to avoid electrical mishap in the laboratory includes all of the following EXCEPT

proper flex routing

proper use of plugs

over-loaded socket

use of suitably rated fuse

Answer: over-loaded socket.