

## Worksheet: Electricity

Gujarat State Board · Class 10 · Science · 4 questions · 10 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 10

**Q1.** A bulb of resistance  $110\ \Omega$  connected to  $220\text{V}$  supply. Find current. [1 mark]

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**Q2.** Find total resistance of  $4\ \Omega, 6\ \Omega$  in series. [1 mark]

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**Q3.** Find equivalent resistance of  $2\ \Omega, 4\ \Omega$  in parallel. [3 marks]

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**Q4.** A heater of  $1000\text{W}$  operates on  $220\text{V}$  for 4 hours daily. Find: (a) resistance, (b) current, (c) monthly energy in kWh, (d) cost at  $\text{₹}/\text{unit}$ . [5 marks]

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