

FORMATIVE ASSESSMENT OF ELECTRICITY

Short Answer Based questions

- 1) What is relation between KWH and Joule?
- 2) The Flow electron constitutes the electric current in the wire. True or false?
- 3) A voltmeter has high resistance and it is connected in parallel True or false?
- 4) What is resistance of the conductor?
- 5) What is the SI unit of resistivity?
- 6) What are the applications of chemical effect of current?
- 7) What is same across the parallel combination of resistors Voltage or current?
- 8) What is critical temperature in metals?

Match the column

Column A	Column B
The total resistance in series combination of resistance	Is less than the smallest individual resistance
The total resistance in parallel combination of resistance	Equal to sum of the resistances in the series
The quantity which remains same in every resistors in Series combination	Voltage
The quantity which remains same in every resistors in Parallel combination	current
The quantity which is obtained by the summing up across the resistors in Series Combination	Is reciprocal of the sum of the reciprocal of all the individual resistance
The quantity which is obtained by the summing up across the resistors in Parallel Combination	

Table type question

Two heaters A and B are given

	Power	Voltage	Resistance	Current
Heater A	100W	220V	?	?
Heater B	150W	220V	?	?

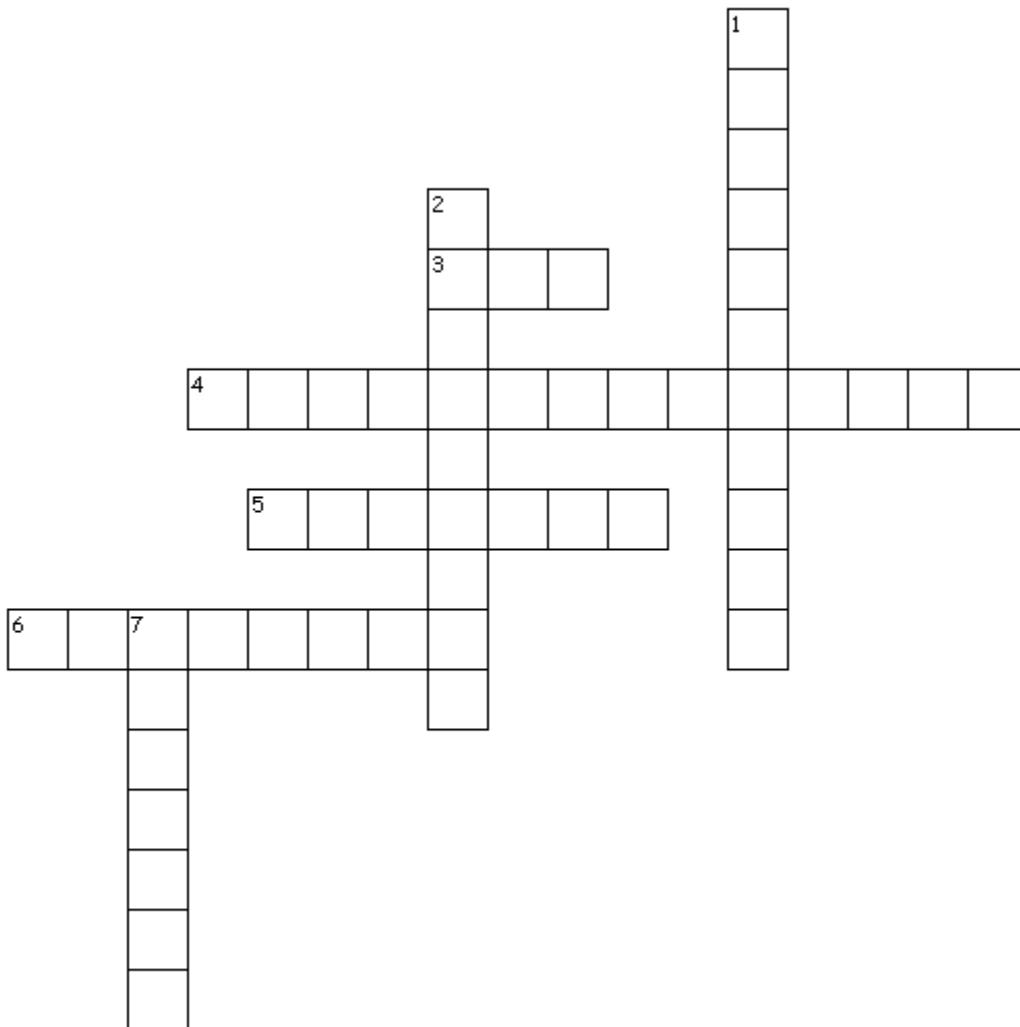
Some more questions to be answered based on above data

- 1) Which Heater for high resistance
- 2) If 1KWH is priced at 30 paise, which heater will be turned costlier if they run for 1 hours each

Fill in the blanks

- 1) The positively charged electrode in an electrolytic cell is called
- 2) The positively electrode in an electrochemical cell is known as
- 3) The potential difference between the ends of the wire of resistance 1 ohm is doubled, the electric power across the wire will by
- 4) The commercial unit of electric power is
- 5) Mercury becomes super conductor when temperature is dropped to
- 6) During the electrolysis of a salt solution, the electricity is carried by
..... and

Crossword Puzzle



Across

- 3. This law states that current is directly proportional to voltage applied
- 4. This is a process for depositing a thin layer of desired metal over another metal
- 5. Instrument used to measure current
- 6. This alloy is used for making heating elements of electrical appliances

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Down

1. Substance having infinite resistance
2. Instrument used to measure Voltage
7. This is the unit of charge

Solutions**Fill in the blank Solution**

- 1) Anode
- 2) Cathode
- 3) Increase , four times
- 4) Kilowatt-hour
- 5) -269°C
- 6) Positively charged cations, negatively charged anions

Crossword Solutions**Across**

Ohm, Electroplating, Ammeter, Nichrome

Down

Insulators, Voltmeter, Coulomb