

**PHYSICS :**      I. FILL UPS :

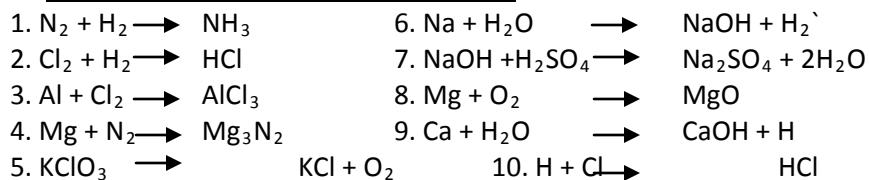
1. The resistance of a wooden block is \_\_\_\_\_ than that of a copper wire.
2. The kilowatt – hour is the unit of \_\_\_\_\_.
3. The resultant resistance of two resistances connected in series is \_\_\_\_\_ than the value of each of the individual resistance.
4. A voltmeter is always connected in \_\_\_\_\_ and it has a very \_\_\_\_\_ resistance.
5. An ammeter should have a very \_\_\_\_\_ resistance.
6. The S.I. Unit of electrical energy is \_\_\_\_\_.
7. The resistance of metals \_\_\_\_\_ with increase in temperatures.
8. Substances having very low electrical resistance are called \_\_\_\_\_.
9.  $1\text{ A} = \text{_____ mA}$ .
10. The amount of heat produced in a conductor is \_\_\_\_\_ to \_\_\_\_\_ of the current passing through the conductor.

II. PROBLEMS:

11. A current of 1.5 A flows through a wire of resistance 5 ohm. Find the amount of heat produced in 10s.
12. Two identical resistors, each of resistance 7 ohm are connected to a battery of 6V. Calculate the ratio of the power consumed by the resulting combination with minimum resistance and maximum resistance.
13. A heater draws 1000 W at 220 V. a) Find the resistance of the heater when in ON condition. Will its resistance be lesser or greater in OFF position? Give reason for your answer. B) Calculate the energy consumed in joules in a week if the heater is used 4 hrs a day.
14. In a factory, an electric bulb of 500 w is used for 2 hours and an electric motor of 373 W is used for 5Hrs daily. Calculate the cost of electricity the factory has to pay for 30 days at the rate of Rs. 3 per unit
15. A torch bulb is rate 2.5 V and 750 mA. Calculate the energy consumed by it if it is lighted for 4 hrs.

**CHEMISTRY:**

III. BALANCE THE FOLLOWING EQUATIONS :



IV. WRITE BALANCED CHEMICAL EQUATION:

11. Iron metal dissolves in copper sulphate solution with the formation of iron sulphate and copper.
12. Sodium metal and chlorine gas is produced when electric current is passes through molten sodium chloride.
13. Sodium metal reacts with water to produce sodium hydroxide and hydrogen gas .
14. Magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas.
15. An aqueous solution of calcium hydroxide reacts with carbon di oxide to form white precipitate of calcium carbonate and water.

**BIOLOGY: PROJECT & SEMINAR**

1. Collect more information on DIGESTION PROBLEMS, CAUSES AND TREATMENT.

(OR)

- Collect more information on RESPIRATORY PROBLEMS, CAUSES AND TREATMENT.